

# Converting Colors

CIELCh(18, 28.617, 1.780)

Have a look what the booklet for  
CIELCh(18, 28.617, 1.780) contains.

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**Color**

**CIELCh(18, 28.718, 1.027)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	50172C
RGB	80, 23, 44
RGB Percent	31%, 9%, 17%
CMY	0.6855, 0.9090, 0.8268
CMYK	0.00, 0.71, 0.45, 0.69
HSL	338°, 55%, 20%
HSV	338°, 71%, 31%
XYZ	4.0937, 2.5180, 2.6701
YIQ	42.4370, 27.2310, 18.6150

# Conversions

## Conversions Part 2

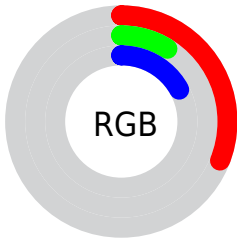
<b>Format</b>	<b>Color</b>
<b>RYB</b>	80, 23, 44
Decimal	5248812
CIELab	18.00, 28.71, 0.51
CIELCh	18, 28.718, 1.027
Yxy	2.5180, 0.4410, 0.2713
Android (android.graphics.Color)	4283438892 (0xFF50172C)
YUV	42.4370, 0.7706, 32.9428
Hunter-Lab	15.8683, 18.2796, 1.1312

# Details

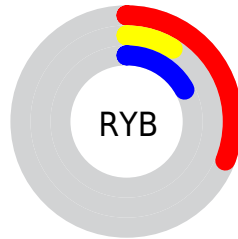
The CIELCh color **18, 28.718, 1.027** is a dark color, and the websafe version is hex **660033**. A complement of this color would be **30, 25.192, 163.751**, and the grayscale version is **17, 0.003, 296.813**.

A 20% lighter version of the original color is **38, 28.808, 1.282**, and **3, 14.623, 17.825** is the 20% darker color. If you saturate the color by 10%, you get **17, 31.756, 3.694**, and if you desaturate by 10%, it is **20, 25.139, 358.873**.

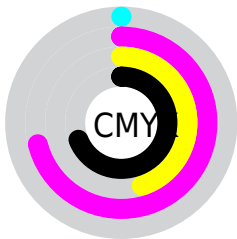
# Distribution



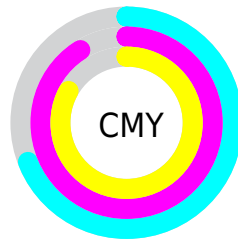
- Red (31%)
- Green (9%)
- Blue (17%)



- Red (31%)
- Yellow (9%)
- Blue (17%)



- Cyan (0%)
- Magenta (71%)
- Yellow (45%)
- Black (69%)



- Cyan (69%)
- Magenta (91%)
- Yellow (83%)

# Brightness & Saturation Gradients

These gradients show how the CIELCh color 18, 28.718, 1.027 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, 28.718, 1.027 by changing the saturation by 10% instead.



 18, 28.718, 1.027       18, 28.718, 1.027

 100, 28.718, 1.027       8, 28.718, 1.027

 38, 28.718, 1.027       0, 28.718, 1.027

 48, 28.718, 1.027

 58, 28.718, 1.027

 68, 28.718, 1.027

 78, 28.718, 1.027

 88, 28.718, 1.027

 98, 28.718, 1.027

 18, 28.718, 1.027       18, 28.718, 1.027

17, 31.756, 3.694

20, 25.139,  
358.873

15, 34.200, 6.927

22, 21.190,  
357.107

14, 36.532, 9.612

24, 17.033,  
355.633

26, 12.798,  
354.378

29, 8.581, 353.287

31, 4.445, 352.310

34, 0.428, 350.967

36, 3.452, 170.822

39, 7.187, 170.095

# Harmonies

# Complementary

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



18, 28.718, 1.027



30, 25.192, 163.751

# Rectangle

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



18, 28.718, 1.027



18, 28.718, 51.027



18, 28.718, 181.027



18, 28.718, 231.027

# Sweetspot

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



18, 28.716, 1.029



38, 10.653, 353.356



16, 39.998, 315.668



18, 7.283, 353.515



74, 0.009, 296.813



22, 0.004, 296.813



# Same Dimension

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



18, 28.716, 1.029



22, 40.244, 5.927



19, 28.294, 35.198



15, 2.267, 352.090



21, 44.032, 11.631



49, 79.767, 15.645





# Inverse Universe

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



18, 28.716, 1.029



22, 40.244, 5.927



28, 16.693, 212.207



15, 2.267, 352.090



21, 44.032, 11.631

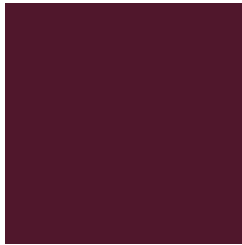


49, 79.767, 15.645



# Previews

## White Background



This preview shows how the CIE LCh color 18, 28.718, 1.027 looks on a white background.

## Color Contrast Check

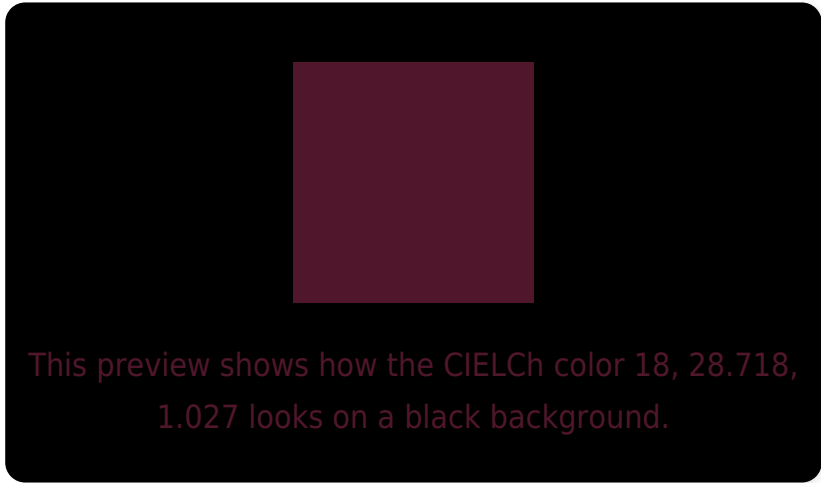
Large Text (above 18pt) WCAG AA ✓ Pass

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

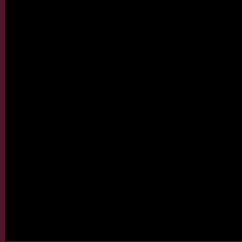
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

**CIELCh 18, 28.718, 1.027**

## **Background**



This preview shows how black text looks on a background with the CIELCh color 18, 28.718, 1.027.



This preview shows how white text looks on a background with the CIELCh color 18, 28.718, 1.027.

# 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, 28.718, 1.027

### Protanopia

19, 8.272, 286.277

### Deuteranopia

19, 4.034, 50.475



**Tritanopia**  
18, 27.359, 26.070



# Trichromacy



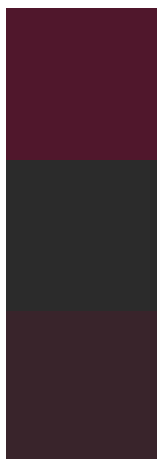
**Original Color**  
18, 28.718, 1.027

**Protanomaly**  
18, 13.779, 334.381

**Deuteranomaly**  
18, 13.411, 5.292

**Tritanomaly**  
18, 26.810, 16.719

# Monochromacy



**Original Color**  
18, 28.718, 1.027

**Achromatopsia**  
18, 0.003, 296.813

**Achromatomaly**  
17, 11.273, 357.163

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 18, 28.718, 1.027 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(80, 23, 44)` looks like.

```
.text, #text, p{  
    color:rgb(80, 23, 44)  
}
```

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(80, 23, 44) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(80, 23, 44) }
```

## Border

The CSS property to change the border of an element to CIELCh 18, 28.718, 1.027 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(80, 23, 44) }
```

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

```
.border{ border-color:rgb(80, 23, 44) }
```

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

Here you see how a box with a 4 pixel `rgb(80, 23, 44)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(80, 23, 44); -webkit-box-  
shadow:4px 4px 4px 4px rgb(80, 23, 44);  
box-shadow:4px 4px 4px 4px rgb(80, 23, 44)  
}
```

# Background

The CSS property to change the background color of an element to CIELCh 18, 28.718, 1.027 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(80, 23, 44) }
```

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

```
.background{ background-color: rgb(80, 23,  
44) }
```

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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**[Learn more, Memberships starting at \\$2.50/m!](#)**

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