

# Converting Colors

CIELCh(18, 26.795, 318.907)

Have a look what the booklet for  
CIELCh(18, 26.795, 318.907)  
contains.

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# Color

**CIELCh(18, 27.358, 318.636)**

# Conversions

## Conversions Part 1

Format	Color
Hex	3C2146
RGB	60, 33, 70
RGB Percent	24%, 13%, 27%
CMY	0.7636, 0.8695, 0.7244
CMYK	0.14, 0.53, 0.00, 0.72
HSL	284°, 36%, 20%
HSV	284°, 53%, 28%
XYZ	3.5468, 2.5180, 6.1412
YIQ	45.2910, 4.2150, 17.2310

# Conversions

## Conversions Part 2

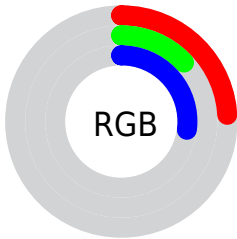
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	60, 33, 70
Decimal	3940678
CIE <sub>Lab</sub>	18.00, 20.53, -18.08
CIE <sub>LCh</sub>	18, 27.358, 318.636
Yxy	2.5180, 0.2906, 0.2063
Android (android.graphics.Color)	4282130758 (0xFF3C2146)
YUV	45.2910, 12.1815, 12.8998
Hunter-Lab	15.8683, 12.1278, -11.8381

# Details

The CIELCh color **18, 27.358, 318.636** is a dark color, and the websafe version is hex **333366**. A complement of this color would be **27, 26.567, 134.219**, and the grayscale version is **19, 0.003, 296.813**.

A 20% lighter version of the original color is **38, 27.721, 318.139**, and **1, 15.039, 304.373** is the 20% darker color. If you saturate the color by 10%, you get **16, 32.257, 318.920**, and if you desaturate by 10%, it is **20, 22.222, 318.294**.

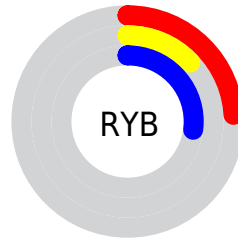
# Distribution



Red (24%)

Green (13%)

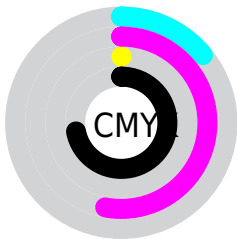
Blue (27%)



Red (24%)

Yellow (13%)

Blue (27%)

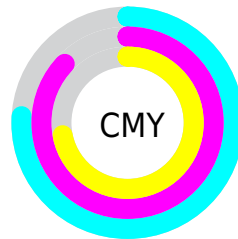


Cyan (14%)

Magenta (53%)

Yellow (0%)

Black (72%)



Cyan (76%)

Magenta (87%)


Yellow (72%)

# Brightness & Saturation Gradients


These gradients show how the CIELCh color 18, 27.358, 318.636 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, 27.358, 318.636 by changing the saturation by 10% instead.




 18, 27.358,  
318.636


 18, 27.358,  
318.636


 100, 27.358,  
318.636


 8, 27.358, 318.636


 38, 27.358,  
318.636

 0, 27.358, 318.636

 48, 27.358,  
318.636

 58, 27.358,  
318.636


 68, 27.358,  
318.636


 78, 27.358,  
318.636


 88, 27.358,

318.636


 98, 27.358,  
318.636


 18, 27.358,  
318.636


 18, 27.358,  
318.636


 16, 32.257,  
318.920


 20, 22.222,  
318.294

 14, 36.754,  
319.113


 22, 16.978,  
317.918

 13, 40.649,  
319.175

 25, 11.716,  
317.528

 11, 44.065,  
319.156

 27, 6.497, 317.135

 10, 46.856,  
319.250

 29, 1.359, 316.706

 32, 3.673, 136.435

■ 34, 8.586, 136.081

■ 36, 13.375,  
135.760

■ 39, 18.037,  
135.464

# Harmonies

# Complementary

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



18, 27.358, 318.636



27, 26.567, 134.219

# Rectangle

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



18, 27.358, 318.636



18, 27.358, 8.636



18, 27.358, 138.636



18, 27.358, 188.636

# Sweetspot

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



18, 27.357, 318.636



34, 10.273, 317.291



18, 18.483, 283.009



16, 6.839, 317.323



71, 0.009, 296.813



19, 0.004, 296.813





# Same Dimension

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



18, 27.357, 318.636



22, 40.304, 318.987



19, 24.789, 334.296



13, 2.884, 316.974



17, 59.548, 318.834



44, 109.131, 318.208



# Inverse Universe

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



18, 19.043, 4.249



22, 28.354, 6.851



26, 24.764, 146.995



13, 1.920, 358.708



19, 43.717, 20.042

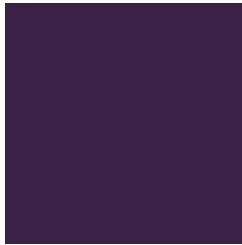


48, 81.982, 24.593



# Previews

## White Background



This preview shows how the CIE LCh color 18, 27.358, 318.636 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



This preview shows how the CIE LCh color 18, 27.358, 318.636 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

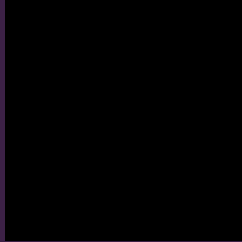
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

**CIELCh 18, 27.358, 318.636**

## **Background**



This preview shows how black text looks on a background with the CIELCh color 18, 27.358, 318.636.



This preview shows how white text looks on a background with the CIELCh color 18, 27.358, 318.636.

# 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, 27.358, 318.636

### Protanopia

18, 25.658, 285.320

### Deuteranopia

18, 16.834, 280.547





**Tritanopia**  
18, 8.113, 6.758

# Trichromacy



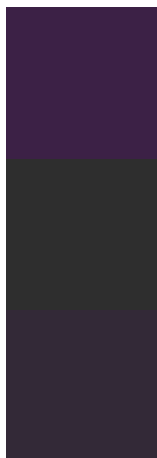
**Original Color**  
18, 27.358, 318.636

**Protanomaly**  
17, 25.610, 296.260

**Deuteranomaly**  
18, 20.142, 298.220

**Tritanomaly**  
18, 13.742, 334.350

# Monochromacy



**Original Color**  
18, 27.358, 318.636

**Achromatopsia**  
19, 0.004, 296.813

**Achromatomaly**  
18, 10.686, 317.102

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 18, 27.358, 318.636 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(60, 33, 70)` looks like.

```
.text, #text, p{  
    color:rgb(60, 33, 70)  
}
```

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(60, 33, 70) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(60, 33, 70) }
```

## Border

The CSS property to change the border of an element to CIELCh 18, 27.358, 318.636 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(60, 33, 70) }
```

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

```
.border{ border-color:rgb(60, 33, 70) }
```

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

Here you see how a box with a 4 pixel `rgb(60, 33, 70)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(60, 33, 70); -webkit-box-  
shadow:4px 4px 4px 4px rgb(60, 33, 70);  
box-shadow:4px 4px 4px 4px rgb(60, 33, 70)  
}
```

# Background

The CSS property to change the background color of an element to CIELCh 18, 27.358, 318.636 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(60, 33, 70) }
```

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

```
.background{ background-color: rgb(60, 33,  
70) }
```

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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