

# Converting Colors

CIELCh(40, 27.631, 297.854)

Have a look what the booklet for  
CIELCh(40, 27.631, 297.854)  
contains.

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# Color

**CIELCh(40, 27.576, 297.823)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	5E5986
RGB	94, 89, 134
RGB Percent	37%, 35%, 53%
CMY	0.6313, 0.6509, 0.4744
CMYK	0.30, 0.34, 0.00, 0.47
HSL	247°, 20%, 44%
HSV	247°, 34%, 53%
XYZ	12.4972, 11.2510, 24.0756
YIQ	95.6250, -11.4650, 15.0550

# Conversions

## Conversions Part 2

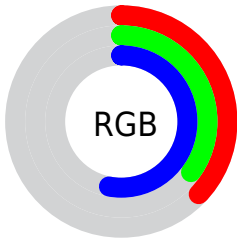
<b>Format</b>	<b>Color</b>
<b>RYB</b>	94, 89, 134
Decimal	6183302
CIELab	40.00, 12.87, -24.39
CIElCh	40, 27.576, 297.823
Yxy	11.2510, 0.2613, 0.2353
Android (android.graphics.Color)	4284373382 (0xFF5E5986)
YUV	95.6250, 18.9189, -1.4251
Hunter-Lab	33.5425, 7.8058, -19.0766

# Details

The CIELCh color  $40, 27.576, 297.823$  is a dark color, and the websafe version is hex  $666699$ . A complement of this color would be  $54, 25.508, 111.953$ , and the grayscale version is  $41, 0.006, 296.813$ .

A 20% lighter version of the original color is  $60, 27.296, 297.456$ , and  $20, 27.200, 297.593$  is the 20% darker color. If you saturate the color by 10%, you get  $35, 36.489, 299.132$ , and if you desaturate by 10%, it is  $45, 18.986, 296.675$ .

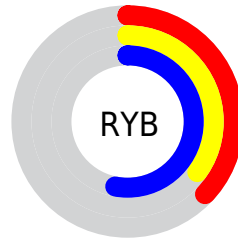
# Distribution



Red (37%)

Green (35%)

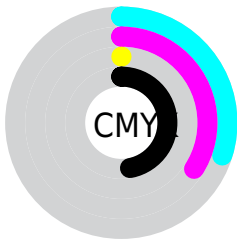
Blue (53%)



Red (37%)

Yellow (35%)

Blue (53%)

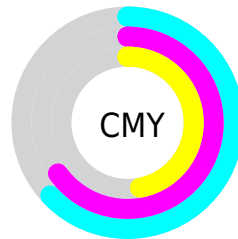


Cyan (30%)

Magenta (34%)

Yellow (0%)

Black (47%)



Cyan (63%)

Magenta (65%)

Yellow (47%)

# Brightness & Saturation Gradients


These gradients show how the CIELCh color 40, 27.576, 297.823 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 40, 27.576, 297.823 by changing the saturation by 10% instead.





 40, 27.576,  
297.823


 40, 27.576,  
297.823


 100, 27.576,  
297.823


 30, 27.576,  
297.823

 60, 27.576,  
297.823


 20, 27.576,  
297.823

 70, 27.576,  
297.823

 10, 27.576,  
297.823

 80, 27.576,  
297.823

 0, 27.576, 297.823

 90, 27.576,  
297.823

 40, 27.576,

 40, 27.576,

297.823

■ 35, 36.489,  
299.132

■ 31, 45.681,  
300.593

■ 26, 55.009,  
302.164

■ 22, 64.130,  
303.743

■ 19, 72.371,  
305.149

■ 16, 78.715,  
306.144

■ 15, 82.315,  
306.792

297.823

■ 45, 18.986,  
296.675

■ 50, 10.724,  
295.680

■ 54, 2.777, 294.826

■ 59, 4.875, 114.079

■ 64, 12.251,  
113.446

■ 68, 19.369,  
112.900

■ 73, 26.247,  
112.428

■ 77, 32.900,  
112.021

■ 82, 39.343,  
111.669

# Harmonies

# Complementary

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



40, 27.576, 297.823



54, 25.508, 111.953

# Rectangle

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



40, 27.576, 297.823



40, 27.576, 347.823



40, 27.576, 117.823



40, 27.576, 167.823

# Sweetspot

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



40, 27.575, 297.823



65, 9.688, 295.378



51, 14.566, 208.438



33, 6.596, 295.483



86, 0.010, 296.813



37, 0.005, 296.813





# Same Dimension

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



40, 27.575, 297.823



47, 41.125, 298.763



42, 29.038, 313.920



25, 4.380, 295.282



14, 80.524, 306.807



0, 1.032, 294.542



# Inverse Universe

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



44, 29.417, 329.518



54, 42.987, 329.938



53, 28.047, 130.996



26, 4.885, 328.096



29, 64.433, 333.056



0, 1.163, 327.610



# Previews

## White Background



This preview shows how the CIELCh color 40, 27.576, 297.823 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 × Fail

# Black Background



This preview shows how the CIE LCh color 40, 27.576, 297.823 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

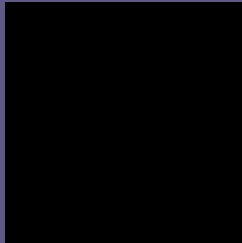
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

**CIELCh 40, 27.576, 297.823**

## **Background**



This preview shows how black text looks on a background with the CIELCh color 40, 27.576, 297.823.



This preview shows how white text looks on a background with the CIELCh color 40, 27.576, 297.823.

# 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

40, 27.576, 297.823

### Protanopia

40, 26.966, 284.995

### Deuteranopia

40, 24.600, 283.573





**Tritanopia**  
40, 5.557, 260.855

# Trichromacy



**Original Color**  
40, 27.576, 297.823

**Protanomaly**  
40, 26.831, 289.090

**Deuteranomaly**  
40, 25.032, 288.401

**Tritanomaly**  
40, 12.839, 287.023

# Monochromacy



**Original Color**  
40, 27.576, 297.823

**Achromatopsia**  
41, 0.006, 296.813

**Achromatomaly**  
40, 10.415, 296.065

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 40, 27.576, 297.823 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(94, 89, 134)` looks like.

```
.text, #text, p{  
    color:rgb(94, 89, 134)  
}
```

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(94, 89, 134) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(94, 89, 134) }
```

## Border

The CSS property to change the border of an element to CIELCh 40, 27.576, 297.823 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(94, 89, 134) }
```

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

```
.border{ border-color:rgb(94, 89, 134) }
```

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

Here you see how a box with a 4 pixel `rgb(94, 89, 134)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(94, 89, 134); -webkit-box-  
shadow:4px 4px 4px 4px rgb(94, 89, 134);  
box-shadow:4px 4px 4px 4px rgb(94, 89,  
134) }
```

# Background

The CSS property to change the background color of an element to CIELCh 40, 27.576, 297.823 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(94, 89, 134) }
```

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

```
.background{ background-color: rgb(94, 89,  
134) }
```

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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