

# Converting Colors

CIELCh(32, 16.496, 334.051)

Have a look what the booklet for  
CIELCh(32, 16.496, 334.051)  
contains.

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**Color**

**CIELCh(32, 16.733, 333.330)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	5D4357
RGB	93, 67, 87
RGB Percent	36%, 26%, 34%
CMY	0.6341, 0.7361, 0.6576
CMYK	0.00, 0.28, 0.06, 0.63
HSL	314°, 16%, 31%
HSV	314°, 28%, 37%
XYZ	8.3024, 7.0852, 10.0113
YIQ	77.0540, 9.0760, 11.7320

# Conversions

## Conversions Part 2

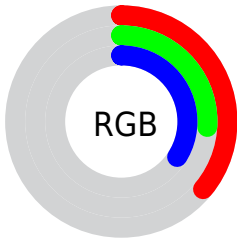
<b>Format</b>	<b>Color</b>
<b>RYB</b>	93, 67, 87
Decimal	6112087
CIELab	32.00, 14.95, -7.51
CIELCh	32, 16.733, 333.330
Yxy	7.0852, 0.3269, 0.2790
Android (android.graphics.Color)	4284302167 (0xFF5D4357)
YUV	77.0540, 4.9034, 13.9846
Hunter-Lab	26.6180, 9.0943, -3.6670

# Details

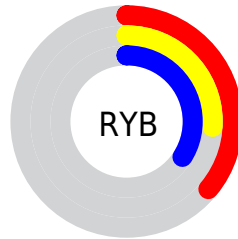
The CIELCh color  $[32, 16.733, 333.330]$  is a dark color, and the websafe version is hex  $333333$ . A complement of this color would be  $[37, 16.636, 149.698]$ , and the grayscale version is  $[33, 0.005, 296.813]$ .

A 20% lighter version of the original color is  $[52, 17.120, 333.293]$ , and  $[12, 17.124, 332.225]$  is the 20% darker color. If you saturate the color by 10%, you get  $[29, 22.661, 333.996]$ , and if you desaturate by 10%, it is  $[35, 10.708, 332.689]$ .

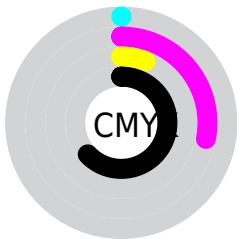
# Distribution



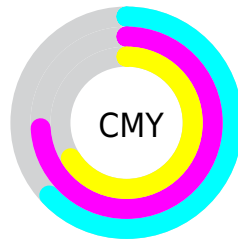
- Red (36%)
- Green (26%)
- Blue (34%)



- Red (36%)
- Yellow (26%)
- Blue (34%)



- Cyan (0%)
- Magenta (28%)
- Yellow (6%)
- Black (63%)




- Cyan (63%)
- Magenta (74%)
- Yellow (66%)


# Brightness & Saturation Gradients


These gradients show how the CIELCh color 32, 16.733, 333.330 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 32, 16.733, 333.330 by changing the saturation by 10% instead.





 32, 16.733,  
333.330


 32, 16.733,  
333.330

 100, 16.733,  
333.330


 22, 16.733,  
333.330

 52, 16.733,  
333.330


 12, 16.733,  
333.330


 62, 16.733,  
333.330

 2, 16.733, 333.330

 72, 16.733,  
333.330

 0, 16.733, 333.330

 82, 16.733,  
333.330

 92, 16.733,  
333.330

■ 32, 16.733,  
333.330

■ 32, 16.733,  
333.330

■ 29, 22.661,  
333.996

■ 35, 10.708,  
332.689

■ 27, 28.351,  
334.690

■ 37, 4.693, 332.057

■ 40, 1.245, 151.659

■ 25, 33.612,  
335.418

■ 43, 7.061, 150.980

■ 23, 38.217,  
336.192

■ 46, 12.733,  
150.437

■ 22, 41.927,  
337.032

■ 49, 18.247,  
149.927

■ 20, 44.535,  
337.963

■ 52, 23.601,  
149.445

■ 19, 46.461,  
338.945

■ 55, 28.798,  
148.990

■ 19, 46.894,

339.144

■ 58, 33.844,  
148.559

# Harmonies

# Complementary

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



32, 16.733, 333.330



37, 16.636, 149.698

# Rectangle

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



32, 16.733, 333.330



32, 16.733, 23.330



32, 16.733, 153.330



32, 16.733, 203.330

# Sweetspot

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



32, 16.732, 333.331



49, 5.958, 332.081



30, 16.881, 300.648



24, 4.197, 332.152



77, 0.009, 296.813



26, 0.004, 296.813





# Same Dimension

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



32, 16.732, 333.331



40, 24.732, 333.739



32, 12.508, 359.893



17, 3.293, 332.117



23, 52.360, 339.415



53, 91.343, 340.335



# Inverse Universe

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



32, 16.732, 333.331



40, 24.732, 333.739



37, 11.541, 174.635



17, 3.293, 332.117



23, 52.360, 339.415



53, 91.343, 340.335



# Previews

## White Background



This preview shows how the CIE LCh color 32, 16.733, 333.330 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 32, 16.733, 333.330 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

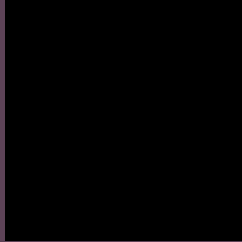
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

# CIELCh 32, 16.733, 333.330

## Background



This preview shows how black text looks on a background with the CIELCh color 32, 16.733, 333.330.



This preview shows how white text looks on a background with the CIELCh color 32, 16.733, 333.330.

# 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

32, 16.733, 333.330

### Protanopia

32, 10.802, 285.776

### Deuteranopia

32, 7.813, 303.778





**Tritanopia**  
32, 10.326, 3.488

# Trichromacy



**Original Color**  
32, 16.733, 333.330

**Protanomaly**  
32, 11.937, 308.020

**Deuteranomaly**  
32, 10.248, 321.174

**Tritanomaly**  
32, 11.889, 349.521

# Monochromacy



**Original Color**  
32, 16.733, 333.330

**Achromatopsia**  
33, 0.005, 296.813

**Achromatomaly**  
32, 6.673, 331.188

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 32, 16.733, 333.330 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(93, 67, 87)` looks like.

```
.text, #text, p{  
    color:rgb(93, 67, 87)  
}
```

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(93, 67, 87) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(93, 67, 87) }
```

## Border

The CSS property to change the border of an element to CIELCh 32, 16.733, 333.330 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(93, 67, 87) }
```

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

```
.border{ border-color:rgb(93, 67, 87) }
```

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

Here you see how a box with a 4 pixel rgb(93, 67, 87) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(93, 67, 87); -webkit-box-  
shadow:4px 4px 4px 4px rgb(93, 67, 87);  
box-shadow:4px 4px 4px 4px rgb(93, 67, 87)  
}
```

# Background

The CSS property to change the background color of an element to CIELCh 32, 16.733, 333.330 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(93, 67, 87) }
```

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

```
.background{ background-color: rgb(93, 67,  
87) }
```

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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