

# Converting Colors

CIELCh(32, 10.846, 345.466)

Have a look what the booklet for  
CIELCh(32, 10.846, 345.466)  
contains.

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# Color

**CIELCh(32, 10.770, 345.443)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	5A4650
RGB	90, 70, 80
RGB Percent	35%, 27%, 31%
CMY	0.6481, 0.7265, 0.6873
CMYK	0.00, 0.22, 0.11, 0.65
HSL	330°, 13%, 31%
HSV	330°, 22%, 35%
XYZ	7.8043, 7.0852, 8.4966
YIQ	77.1200, 8.7100, 7.3500

# Conversions

## Conversions Part 2

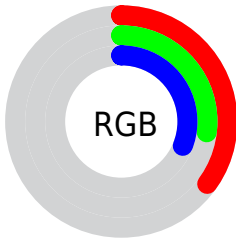
<b>Format</b>	<b>Color</b>
<b>RYB</b>	90, 70, 80
Decimal	5916240
CIELab	32.00, 10.42, -2.71
CIElCh	32, 10.770, 345.443
Yxy	7.0852, 0.3337, 0.3030
Android (android.graphics.Color)	4284106320 (0xFF5A4650)
YUV	77.1200, 1.4198, 11.2958
Hunter-Lab	26.6180, 5.7540, -0.2931

# Details

The CIELCh color  $[32, 10.770, 345.443]$  is a dark color, and the websafe version is hex  $\#333333$ . A complement of this color would be  $[36, 10.496, 161.853]$ , and the grayscale version is  $[33, 0.005, 296.813]$ .

A 20% lighter version of the original color is  $[52, 10.898, 344.932]$ , and  $[12, 10.536, 344.927]$  is the 20% darker color. If you saturate the color by 10%, you get  $[29, 15.691, 346.413]$ , and if you desaturate by 10%, it is  $[35, 5.878, 344.564]$ .

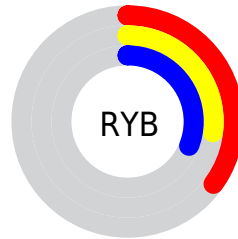
# Distribution



 Red (35%)

 Green (27%)

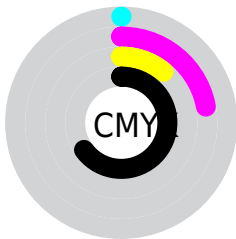
 Blue (31%)



 Red (35%)

 Yellow (27%)

 Blue (31%)

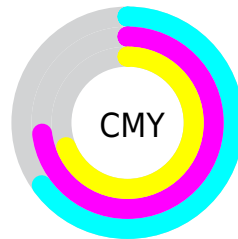


 Cyan (0%)

 Magenta (22%)

 Yellow (11%)

 Black (65%)



 Cyan (65%)

 Magenta (73%)


 Yellow (69%)

# Brightness & Saturation Gradients


These gradients show how the CIELCh color 32, 10.770, 345.443 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, 10.770, 345.443 by changing the saturation by 10% instead.





 32, 10.770,  
345.443


 32, 10.770,  
345.443

 100, 10.770,  
345.443


 22, 10.770,  
345.443

 52, 10.770,  
345.443


 12, 10.770,  
345.443


 62, 10.770,  
345.443

 2, 10.770, 345.443

 72, 10.770,  
345.443

 0, 10.770, 345.443

 82, 10.770,  
345.443

 92, 10.770,  
345.443

32, 10.770,  
345.443

32, 10.770,  
345.443

29, 15.691,  
346.413

35, 5.878, 344.564

27, 20.552,  
347.502

37, 1.078, 343.608

40, 3.598, 163.165

25, 25.220,  
348.752

43, 8.131, 162.468

22, 29.519,  
350.219

46, 12.516,  
161.845

21, 33.239,  
351.979

49, 16.755,  
161.270

19, 36.169,  
354.133

52, 20.851,  
160.737

18, 38.233,  
356.754

55, 24.814,  
160.238

17, 39.843,

58, 28.652,

358.734

159.772

# Harmonies

# Complementary

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



32, 10.770, 345.443



36, 10.496, 161.853

# Rectangle

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



32, 10.770, 345.443



32, 10.770, 35.443



32, 10.770, 165.443



32, 10.770, 215.443

# Sweetspot

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



32, 10.769, 345.445



47, 4.158, 344.133



31, 13.390, 309.464



23, 2.675, 344.153



76, 0.009, 296.813



25, 0.004, 296.813





# Same Dimension

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



32, 10.769, 345.445



40, 16.339, 345.975



32, 9.134, 19.578



17, 2.724, 344.273



22, 45.717, 359.823



51, 80.127, 2.750



# Inverse Universe

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



32, 10.769, 345.445



40, 16.339, 345.975



37, 8.013, 196.880



17, 2.724, 344.273



22, 45.717, 359.823



51, 80.127, 2.750



# Previews

## White Background



This preview shows how the CIE LCh color 32, 10.770, 345.443 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 CIELCh color 32, 10.770, 345.443 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

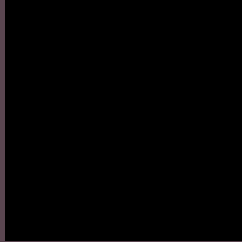
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

# CIELCh 32, 10.770, 345.443

## Background



This preview shows how black text looks on a background with the CIELCh color 32, 10.770, 345.443.



This preview shows how white text looks on a background with the CIELCh color 32, 10.770, 345.443.

# 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, 10.770, 345.443

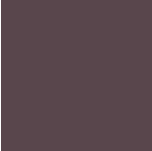
### Protanopia

32, 5.070, 291.084

### Deuteranopia

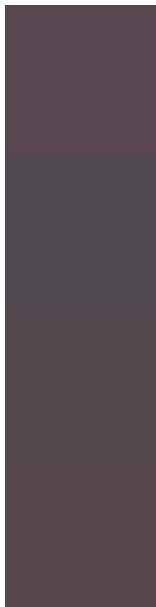
32, 5.167, 332.889





**Tritanopia**  
32, 9.240, 356.847

# Trichromacy



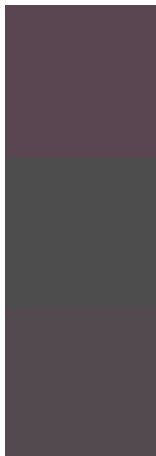
**Original Color**  
32, 10.770, 345.443

**Protanomaly**  
32, 6.472, 318.560

**Deuteranomaly**  
32, 6.867, 340.409

**Tritanomaly**  
32, 9.484, 353.316

# Monochromacy



**Original Color**  
32, 10.770, 345.443

**Achromatopsia**  
33, 0.005, 296.813

**Achromatomaly**  
32, 4.324, 344.342

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 32, 10.770, 345.443 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(90, 70, 80)` looks like.

```
.text, #text, p{  
    color:rgb(90, 70, 80)  
}
```

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(90, 70, 80) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(90, 70, 80) }
```

## Border

The CSS property to change the border of an element to CIELCh 32, 10.770, 345.443 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(90, 70, 80) }
```

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

```
.border{ border-color:rgb(90, 70, 80) }
```

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

Here you see how a box with a 4 pixel rgb(90, 70, 80) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(90, 70, 80); -webkit-box-  
shadow:4px 4px 4px 4px rgb(90, 70, 80);  
box-shadow:4px 4px 4px 4px rgb(90, 70, 80)  
}
```

# Background

The CSS property to change the background color of an element to CIELCh 32, 10.770, 345.443 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(90, 70, 80) }
```

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

```
.background{ background-color: rgb(90, 70,  
80) }
```

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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