

# Converting Colors

CIELCh(30, 16.784, 325.712)

Have a look what the booklet for  
CIELCh(30, 16.784, 325.712)  
contains.

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# Color

**CIELCh(30, 16.086, 325.668)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	554055
RGB	85, 64, 85
RGB Percent	33%, 25%, 33%
CMY	0.6671, 0.7494, 0.6671
CMYK	0.00, 0.25, 0.00, 0.67
HSL	300°, 14%, 29%
HSV	300°, 25%, 33%
XYZ	7.1999, 6.2359, 9.3966
YIQ	72.6730, 5.7750, 10.9830

# Conversions

## Conversions Part 2

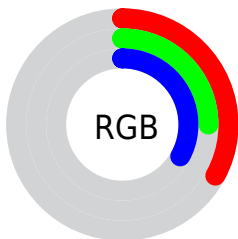
<b>Format</b>	<b>Color</b>
<b>RYB</b>	85, 64, 85
Decimal	5587029
CIELab	30.00, 13.28, -9.07
CIELCh	30, 16.086, 325.668
Yxy	6.2359, 0.3153, 0.2731
Android (android.graphics.Color)	4283777109 (0xFF554055)
YUV	72.6730, 6.0772, 10.8108
Hunter-Lab	24.9718, 7.7646, -4.8299

# Details


The CIELCh color  $[30, 16.086, 325.668]$  is a dark color, and the websafe version is hex  $333333$ . A complement of this color would be  $[34, 16.076, 142.959]$ , and the grayscale version is  $[31, 0.005, 296.813]$ .

A 20% lighter version of the original color is  $[50, 16.219, 325.331]$ , and  $[10, 16.107, 324.908]$  is the 20% darker color. If you saturate the color by 10%, you get  $[28, 22.529, 326.156]$ , and if you desaturate by 10%, it is  $[32, 9.561, 325.164]$ .

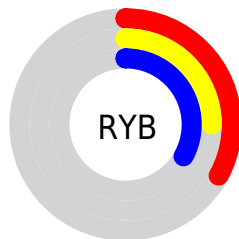
# Distribution



 Red (33%)

 Green (25%)

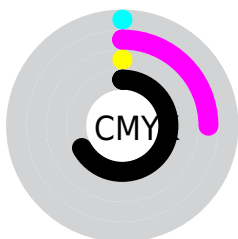
 Blue (33%)




 Red (33%)

 Yellow (25%)

 Blue (33%)

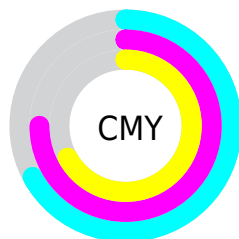



 Cyan (0%)


 Magenta (25%)

 Yellow (0%)

 Black (67%)



 Cyan (67%)

 Magenta (75%)


 Yellow (67%)

# Brightness & Saturation Gradients


These gradients show how the CIELCh color 30, 16.086, 325.668 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 30, 16.086, 325.668 by changing the saturation by 10% instead.




 30, 16.086,  
325.668


 30, 16.086,  
325.668

 100, 16.086,  
325.668


 20, 16.086,  
325.668


 50, 16.086,  
325.668


 10, 16.086,  
325.668

 60, 16.086,  
325.668

 0, 16.086, 325.668

 70, 16.086,  
325.668

 80, 16.086,  
325.668

 90, 16.086,  
325.668

30, 16.086,  
325.668

30, 16.086,  
325.668

28, 22.529,  
326.156

32, 9.561, 325.164

26, 28.760,  
326.618

35, 3.055, 324.632

37, 3.365, 144.223

24, 34.608,  
327.041

40, 9.654, 143.712

22, 39.871,  
327.414

43, 15.786,  
143.238

21, 44.338,  
327.723

45, 21.748,  
142.787

20, 47.824,  
327.960

48, 27.533,  
142.359

19, 50.483,  
328.137

51, 33.144,  
141.955

18, 51.907,

53, 38.584,

328.231

141.575

# Harmonies

# Complementary

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



30, 16.086, 325.668



34, 16.076, 142.959

# Rectangle

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



30, 16.086, 325.668



30, 16.086, 15.668



30, 16.086, 145.668



30, 16.086, 195.668

# Sweetspot

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



30, 16.085, 325.668



44, 5.591, 324.773



28, 13.389, 292.150



22, 3.663, 324.785



75, 0.009, 296.813



24, 0.004, 296.813





# Same Dimension

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



30, 16.085, 325.668



37, 24.077, 325.976



30, 11.560, 344.735



16, 3.685, 324.857



24, 61.036, 328.231



56, 108.502, 328.231



# Inverse Universe

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



29, 9.781, 21.086



36, 14.979, 21.710



34, 11.263, 160.781



16, 2.127, 19.817



21, 52.681, 36.571



49, 98.180, 39.999



# Previews

## White Background



This preview shows how the CIE LCh color 30, 16.086, 325.668 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 30, 16.086, 325.668 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 30, 16.086, 325.668**

## **Background**



This preview shows how black text looks on a background with the CIELCh color 30, 16.086, 325.668.

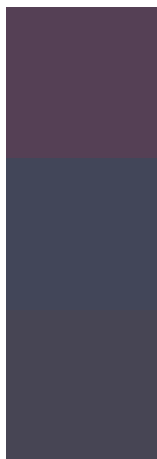


This preview shows how white text looks on a background with the CIELCh color 30, 16.086, 325.668.

# 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

30, 16.086, 325.668

### Protanopia

30, 12.227, 285.064

### Deuteranopia

30, 9.674, 296.801





**Tritanopia**  
30, 8.507, 354.222

# Trichromacy



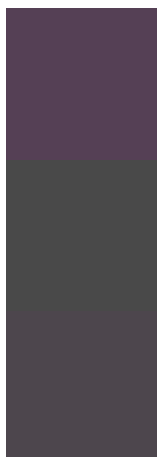
**Original Color**  
30, 16.086, 325.668

**Protanomaly**  
30, 13.029, 301.382

**Deuteranomaly**  
30, 11.586, 310.920

**Tritanomaly**  
30, 11.300, 338.750

# Monochromacy



**Original Color**  
30, 16.086, 325.668

**Achromatopsia**  
31, 0.005, 296.813

**Achromatomaly**  
31, 5.427, 324.866

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 30, 16.086, 325.668 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(85, 64, 85)` looks like.

```
.text, #text, p{  
    color:rgb(85, 64, 85)  
}
```

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(85, 64, 85) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(85, 64, 85) }
```

## Border

The CSS property to change the border of an element to CIELCh 30, 16.086, 325.668 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(85, 64, 85) }
```

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

```
.border{ border-color:rgb(85, 64, 85) }
```

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

Here you see how a box with a 4 pixel rgb(85, 64, 85) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(85, 64, 85); -webkit-box-  
shadow:4px 4px 4px 4px rgb(85, 64, 85);  
box-shadow:4px 4px 4px 4px rgb(85, 64, 85)  
}
```

# Background

The CSS property to change the background color of an element to CIELCh 30, 16.086, 325.668 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(85, 64, 85) }
```

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

```
.background{ background-color: rgb(85, 64,  
85) }
```

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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