

# Converting Colors

CIELCh(34, 16.550, 133.484)

Have a look what the booklet for  
CIELCh(34, 16.550, 133.484)  
contains.

<b>CIELCh(34, 16.550, 133.484)</b> .....	3
<b><i>Conversions</i></b> .....	4
<b><i>Details</i></b> .....	6
<b><i>Harmonies</i></b> .....	12
<b><i>Previews</i></b> .....	21
<b><i>Color Blindness Simulation</i></b> .....	24
<b><i>CSS Examples</i></b> .....	27

# Color

**CIELCh(34, 16.550, 133.484)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	45553D
RGB	69, 85, 61
RGB Percent	27%, 33%, 24%
CMY	0.7311, 0.6684, 0.7625
CMYK	0.19, 0.00, 0.28, 0.67
HSL	100°, 17%, 28%
HSV	100°, 28%, 33%
XYZ	6.4675, 8.0082, 5.5598
YIQ	77.4800, -1.8320, -10.8560

# Conversions

## Conversions Part 2

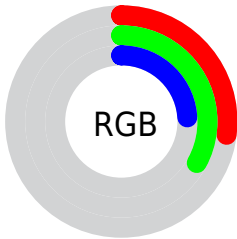
<b>Format</b>	<b>Color</b>
<b>RYB</b>	61, 85, 77
Decimal	4543805
CIELab	34.00, -11.39, 12.01
CIELCh	34, 16.550, 133.484
Yxy	8.0082, 0.3228, 0.3997
Android (android.graphics.Color)	4282733885 (0xFF45553D)
YUV	77.4800, -8.1246, -7.4370
Hunter-Lab	28.2988, -8.7278, 8.1606

# Details

The CIELCh color  $[34, 16.550, 133.484]$  is a dark color, and the websafe version is hex `666633`. A complement of this color would be  $[28, 16.920, 315.781]$ , and the grayscale version is  $[33, 0.005, 296.813]$ .

A 20% lighter version of the original color is  $[54, 16.457, 133.438]$ , and  $[14, 16.458, 134.151]$  is the 20% darker color. If you saturate the color by 10%, you get  $[33, 22.332, 133.003]$ , and if you desaturate by 10%, it is  $[35, 10.708, 133.943]$ .

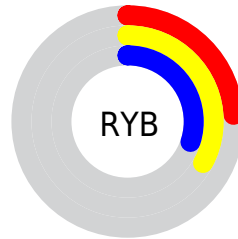
# Distribution



Red (27%)

Green (33%)

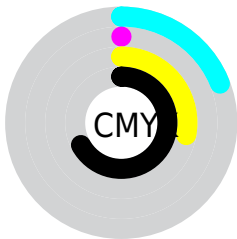
Blue (24%)



Red (24%)

Yellow (33%)

Blue (30%)

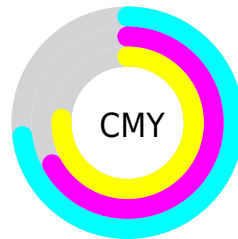


Cyan (19%)

Magenta (0%)

Yellow (28%)

Black (67%)



Cyan (73%)

Magenta (67%)

Yellow (76%)

# Brightness & Saturation Gradients


These gradients show how the CIELCh color 34, 16.550, 133.484 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 34, 16.550, 133.484 by changing the saturation by 10% instead.




 34, 16.550,  
133.484

 34, 16.550,  
133.484

 100, 16.550,  
133.484


 24, 16.550,  
133.484

 54, 16.550,  
133.484

 14, 16.550,  
133.484

 64, 16.550,  
133.484

 4, 16.550, 133.484

 74, 16.550,  
133.484

 0, 16.550, 133.484

 84, 16.550,  
133.484

 94, 16.550,  
133.484

■ 34, 16.550,  
133.484

■ 34, 16.550,  
133.484

■ 33, 22.332,  
133.003

■ 35, 10.708,  
133.943

■ 33, 27.978,  
132.516

■ 35, 4.860, 134.373

■ 32, 33.387,  
132.056

■ 36, 0.955, 314.639

■ 32, 38.422,  
131.675

■ 37, 6.708, 315.062

■ 32, 42.904,  
131.452

■ 38, 12.376,  
315.371

■ 31, 46.622,  
131.483

■ 39, 17.946,  
315.640

■ 31, 50.015,  
131.410

■ 40, 23.408,  
315.876

■ 31, 50.595,

■ 40, 28.756,  
316.082

131.350

■ 41, 33.988,  
316.261

# Harmonies

# Complementary

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



34, 16.550, 133.484



28, 16.920, 315.781

# Rectangle

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



34, 16.550, 133.484



34, 16.550, 183.484



34, 16.550, 313.484



34, 16.550, 3.484

# Sweetspot

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



34, 16.551, 133.485



45, 6.487, 134.333



33, 10.725, 87.806



23, 4.546, 134.293



75, 0.009, 296.813



24, 0.004, 296.813





# Same Dimension

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



34, 16.551, 133.485



43, 24.560, 133.160



34, 16.351, 147.522



17, 3.322, 134.354



39, 59.965, 131.799



82, 107.751, 132.711



# Inverse Universe

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



28, 16.920, 315.781



35, 25.241, 316.056



29, 16.402, 330.986



16, 3.349, 314.990



18, 63.446, 316.834



43, 113.249, 316.185



# Previews

## White Background



This preview shows how the CIELCh color 34, 16.550, 133.484 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 34, 16.550, 133.484 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

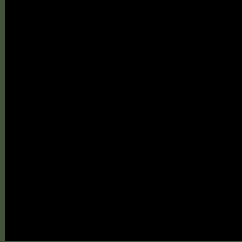
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

**CIELCh 34, 16.550, 133.484**

## **Background**



This preview shows how black text looks on a background with the CIELCh color 34, 16.550, 133.484.



This preview shows how white text looks on a background with the CIELCh color 34, 16.550, 133.484.

# 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

34, 16.550, 133.484

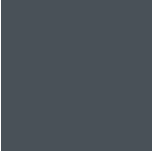
### Protanopia

34, 13.966, 96.001

### Deuteranopia

34, 12.150, 69.892





**Tritanopia**  
34, 5.393, 253.847

# Trichromacy



## Original Color

34, 16.550, 133.484

## Protanomaly

34, 14.261, 111.466

## Deuteranomaly

34, 11.968, 99.088

## Tritanomaly

34, 5.339, 170.628

# Monochromacy



## Original Color

34, 16.550, 133.484

## Achromatopsia

33, 0.005, 296.813

## Achromatomaly

33, 6.254, 134.249

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 34, 16.550, 133.484 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(69, 85, 61)` looks like.

```
.text, #text, p{  
    color:rgb(69, 85, 61)  
}
```

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(69, 85, 61) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(69, 85, 61) }
```

## Border

The CSS property to change the border of an element to CIELCh 34, 16.550, 133.484 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(69, 85, 61) }
```

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

```
.border{ border-color:rgb(69, 85, 61) }
```

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

Here you see how a box with a 4 pixel `rgb(69, 85, 61)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(69, 85, 61); -webkit-box-  
shadow:4px 4px 4px 4px rgb(69, 85, 61);  
box-shadow:4px 4px 4px 4px rgb(69, 85, 61)  
}
```

# Background

The CSS property to change the background color of an element to CIELCh 34, 16.550, 133.484 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(69, 85, 61) }
```

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

```
.background{ background-color: rgb(69, 85,  
61) }
```

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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

**[Learn more, Memberships starting at \\$2.50/m!](#)**

**Follow me  
on Twitter!**

@ConvertingColor