

# Converting Colors

CIELCh(35, 31.708, 140.038)

Have a look what the booklet for  
CIELCh(35, 31.708, 140.038)  
contains.

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# Color

**CIELCh(35, 31.664, 140.077)**

# Conversions

Conversions Part 1	
Format	Color
Hex	335C31
RGB	51, 92, 49
RGB Percent	20%, 36%, 19%
CMY	0.8015, 0.6408, 0.8093
CMYK	0.45, 0.00, 0.47, 0.64
HSL	117°, 31%, 27%
HSV	117°, 47%, 36%
XYZ	5.6854, 8.4984, 4.2064
YIQ	74.8390, -10.6330, -22.0650

# Conversions

## Conversions Part 2

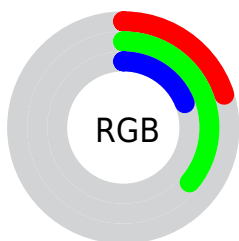
Format	Color
<a href="#">RYB</a>	<a href="#">49, 92, 90</a>
Decimal	<a href="#">3365937</a>
CIELab	<a href="#">35.00, -24.28, 20.32</a>
CIELCh	<a href="#">35, 31.664, 140.077</a>
Yxy	<a href="#">8.4984, 0.3092, 0.4621</a>
Android (android.graphics.Color)	<a href="#">4281556017</a> (0xFF335C31)
YUV	<a href="#">74.8390, -12.7386, -20.9068</a>
Hunter-Lab	<a href="#">29.1520, -16.2036, 11.8513</a>

# Details

The CIELCh color **35, 31.664, 140.077** is a dark color, and the websafe version is hex **336633**. A complement of this color would be **27, 31.694, 325.374**, and the grayscale version is **32, 0.005, 296.813**.

A 20% lighter version of the original color is **55, 31.881, 140.137**, and **15, 31.441, 140.331** is the 20% darker color. If you saturate the color by 10%, you get **34, 37.865, 139.175**, and if you desaturate by 10%, it is **36, 25.110, 140.910**.

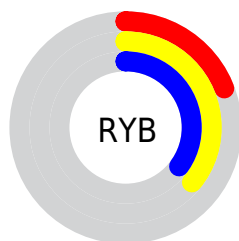
# Distribution



Red (20%)

Green (36%)

Blue (19%)



Red (19%)

Yellow (36%)

Blue (35%)

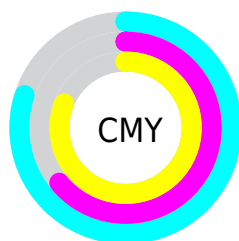


Cyan (45%)

Magenta (0%)

Yellow (47%)

Black (64%)



Cyan (80%)

Magenta (64%)


Yellow (81%)


# Brightness & Saturation Gradients


These gradients show how the CIELCh color 35, 31.664, 140.077 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 35, 31.664, 140.077 by changing the saturation by 10% instead.





 35, 31.664,  
140.077


 35, 31.664,  
140.077

 100, 31.664,  
140.077


 25, 31.664,  
140.077

 55, 31.664,  
140.077


 15, 31.664,  
140.077


 65, 31.664,  
140.077


 5, 31.664, 140.077


 75, 31.664,  
140.077


 0, 31.664, 140.077


 85, 31.664,  
140.077

 95, 31.664,  
140.077


 35, 31.664,  
140.077


 35, 31.664,  
140.077


 34, 37.865,  
139.175


 36, 25.110,  
140.910

 34, 43.525,  
138.243


 36, 18.352,  
141.656

 34, 48.421,  
137.353


 37, 11.510,  
142.313

 33, 52.309,  
136.609


 38, 4.675, 142.896


 33, 55.381,  
135.869

 39, 2.086, 323.286

 33, 56.366,  
135.586

 40, 8.724, 323.755

 42, 15.207,  
324.120

 43, 21.516,  
324.429

■ 44, 27.639,  
324.694

# Harmonies

# Complementary

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



35, 31.664, 140.077



27, 31.694, 325.374

# Rectangle

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



35, 31.664, 140.077



35, 31.664, 190.077



35, 31.664, 320.077



35, 31.664, 10.077

# Sweetspot

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



35, 31.665, 140.077



49, 11.881, 142.461



37, 24.537, 103.725



25, 8.273, 142.371



77, 0.009, 296.813



26, 0.004, 296.813





# Same Dimension

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



35, 31.665, 140.077



45, 46.417, 139.091



35, 22.940, 156.788



18, 3.805, 142.787



40, 64.013, 135.664



82, 113.159, 135.877



# Inverse Universe

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



27, 31.694, 325.374



33, 46.312, 325.787



26, 23.802, 345.177



17, 3.814, 323.609



24, 62.200, 326.512

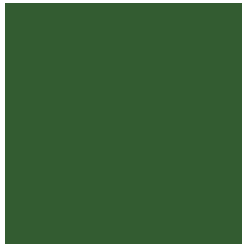


54, 109.654, 326.402



# Previews

## White Background



This preview shows how the CIELCh color 35, 31.664, 140.077 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 35, 31.664, 140.077 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 35, 31.664, 140.077**

## **Background**



This preview shows how black text looks on a background with the CIELCh color 35, 31.664, 140.077.

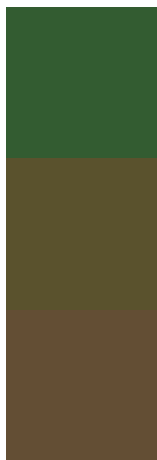


This preview shows how white text looks on a background with the CIELCh color 35, 31.664, 140.077.

# 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

35, 31.664, 140.077

### Protanopia

35, 22.958, 96.347

### Deuteranopia

35, 19.364, 75.124





## Tritanopia

35, 10.910, 221.942

# Trichromacy



# Monochromacy



# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 35, 31.664, 140.077 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(51, 92, 49)` looks like.

```
.text, #text, p{  
    color:rgb(51, 92, 49)  
}
```

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(51, 92, 49) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(51, 92, 49) }
```

## Border

The CSS property to change the border of an element to CIELCh 35, 31.664, 140.077 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(51, 92, 49) }
```

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

```
.border{ border-color:rgb(51, 92, 49) }
```

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

Here you see how a box with a 4 pixel `rgb(51, 92, 49)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(51, 92, 49); -webkit-box-  
shadow:4px 4px 4px 4px rgb(51, 92, 49);  
box-shadow:4px 4px 4px 4px rgb(51, 92, 49)  
}
```

# Background

The CSS property to change the background color of an element to CIELCh 35, 31.664, 140.077 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(51, 92, 49) }
```

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

```
.background{ background-color: rgb(51, 92,  
49) }
```

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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