

# Converting Colors

CIELCh(41, 31.670, 120.989)

Have a look what the booklet for  
CIELCh(41, 31.670, 120.989)  
contains.

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**Color**

**CIELCh(41, 31.464, 121.009)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	556733
RGB	85, 103, 51
RGB Percent	33%, 40%, 20%
CMY	0.6668, 0.5962, 0.8001
CMYK	0.17, 0.00, 0.50, 0.60
HSL	81°, 34%, 30%
HSV	81°, 50%, 40%
XYZ	9.1889, 11.8645, 4.9351
YIQ	91.6900, 5.9640, -19.9880

# Conversions

## Conversions Part 2

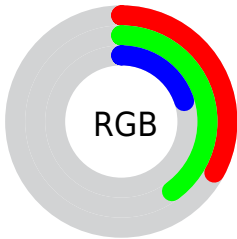
<b>Format</b>	<b>Color</b>
<b>RYB</b>	51, 103, 69
Decimal	5596979
CIELab	41.00, -16.21, 26.97
CIElCh	41, 31.464, 121.009
Yxy	11.8645, 0.3536, 0.4565
Android (android.graphics.Color)	4283787059 (0xFF556733)
YUV	91.6900, -20.0602, -5.8671
Hunter-Lab	34.4449, -12.6599, 15.6167

# Details

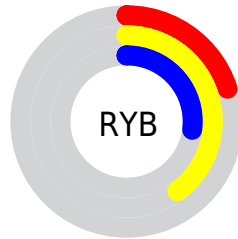
The CIELCh color  $41, 31.464, 121.009$  is a dark color, and the websafe version is hex  $666633$ . A complement of this color would be  $26, 34.646, 306.746$ , and the grayscale version is  $39, 0.006, 296.813$ .

A 20% lighter version of the original color is  $61, 31.235, 120.880$ , and  $21, 31.414, 121.071$  is the 20% darker color. If you saturate the color by 10%, you get  $41, 37.109, 120.639$ , and if you desaturate by 10%, it is  $41, 25.493, 121.471$ .

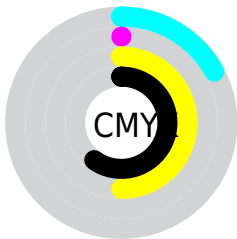
# Distribution



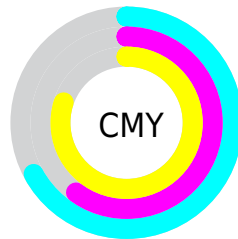
- Red (33%)
- Green (40%)
- Blue (20%)



- Red (20%)
- Yellow (40%)
- Blue (27%)



- Cyan (17%)
- Magenta (0%)
- Yellow (50%)
- Black (60%)




- Cyan (67%)
- Magenta (60%)
- Yellow (80%)


# Brightness & Saturation Gradients


These gradients show how the CIELCh color 41, 31.464, 121.009 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 41, 31.464, 121.009 by changing the saturation by 10% instead.





 41, 31.464,  
121.009


 41, 31.464,  
121.009


 100, 31.464,  
121.009


 31, 31.464,  
121.009

 61, 31.464,  
121.009


 21, 31.464,  
121.009

 71, 31.464,  
121.009


 11, 31.464,  
121.009


 81, 31.464,  
121.009

 1, 31.464, 121.009

 91, 31.464,  
121.009

 0, 31.464, 121.009

 41, 31.464,

 41, 31.464,

121.009

■ 41, 37.109,  
120.639

■ 40, 42.250,  
120.421

■ 40, 46.660,  
120.441

■ 40, 50.089,  
120.796

■ 39, 52.964,  
121.196

121.009

■ 41, 25.493,  
121.471

■ 42, 19.318,  
121.975

■ 42, 13.026,  
122.494

■ 43, 6.676, 123.011

■ 44, 0.309, 123.631

■ 44, 6.043, 303.967

■ 45, 12.359,  
304.415

■ 46, 18.624,  
304.830

■ 46, 24.826,



# Harmonies

# Complementary

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



41, 31.464, 121.009



26, 34.646, 306.746

# Rectangle

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



41, 31.464, 121.009



41, 31.464, 171.009



41, 31.464, 301.009



41, 31.464, 351.009

# Sweetspot

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



41, 31.465, 121.011



54, 11.742, 122.758



32, 20.834, 52.456



27, 7.945, 122.682



78, 0.009, 296.813



28, 0.004, 296.813





# Same Dimension

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



41, 31.465, 121.011



52, 45.856, 120.576



39, 36.035, 136.917



21, 3.542, 123.092



44, 57.259, 121.385



87, 99.944, 122.299



# Inverse Universe

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



26, 34.646, 306.746



29, 51.997, 307.666



29, 36.551, 321.865



19, 3.599, 303.975



14, 71.064, 309.405



35, 124.135, 308.811



# Previews

## White Background



This preview shows how the CIELCh color 41, 31.464, 121.009 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 × Fail

# Black Background



This preview shows how the CIE LCh color 41, 31.464, 121.009 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

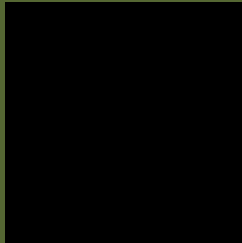
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

**CIELCh 41, 31.464, 121.009**

## **Background**



This preview shows how black text looks on a background with the CIELCh color 41, 31.464, 121.009.



This preview shows how white text looks on a background with the CIELCh color 41, 31.464, 121.009.

# 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

41, 31.464, 121.009

### Protanopia

41, 28.730, 96.089

### Deuteranopia

41, 26.364, 77.886





**Tritanopia**  
41, 5.209, 268.413

# Trichromacy



**Original Color**  
41, 31.464, 121.009

**Protanomaly**  
41, 28.744, 105.775

**Deuteranomaly**  
41, 26.017, 95.538

**Tritanomaly**  
41, 9.517, 135.611

# Monochromacy



**Original Color**  
41, 31.464, 121.009

**Achromatopsia**  
39, 0.006, 296.813

**Achromatomaly**  
40, 11.923, 123.391

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 41, 31.464, 121.009 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, 103, 51)` looks like.

```
.text, #text, p{  
    color:rgb(85, 103, 51)  
}
```

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, 103, 51) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(85, 103, 51) }
```

## Border

The CSS property to change the border of an element to CIELCh 41, 31.464, 121.009 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, 103, 51) }
```

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

```
.border{ border-color:rgb(85, 103, 51) }
```

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

Here you see how a box with a 4 pixel `rgb(85, 103, 51)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(85, 103, 51); -webkit-box-  
shadow:4px 4px 4px 4px rgb(85, 103, 51);  
box-shadow:4px 4px 4px 4px rgb(85, 103,  
51) }
```

# Background

The CSS property to change the background color of an element to CIELCh 41, 31.464, 121.009 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(85, 103, 51) }
```

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

```
.background{ background-color: rgb(85, 103,  
51) }
```

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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