

Converting Colors

CIELCh(33, 50.767, 104.078)

Have a look what the booklet for
CIELCh(33, 50.767, 104.078)
contains.

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Color

CIELCh(33, 42.573, 105.620)

Conversions

Conversions Part 1

Format	Color
Hex	4D5100
RGB	77, 81, 0
RGB Percent	30%, 32%, 0%
CMY	0.6966, 0.6807, 1.0000
CMYK	0.05, 0.00, 1.00, 0.68
HSL	63°, 100%, 16%
HSV	63°, 100%, 32%
XYZ	6.0597, 7.5373, 1.1189
YIQ	70.5700, 23.6170, -26.0390

Conversions

Conversions Part 2

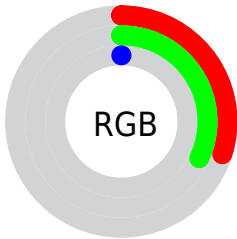
Format	Color
RYB	0, 81, 4
Decimal	5067008
CIELab	33.00, -11.46, 41.00
CIELCh	33, 42.573, 105.620
Yxy	7.5373, 0.4118, 0.5122
Android (android.graphics.Color)	4283257088 (0xFF4D5100)
YUV	70.5700, -34.7910, 5.6391
Hunter-Lab	27.4541, -8.6462, 16.8014

Details

The CIELCh color **33, 42.573, 105.620** is a dark color, and the websafe version is hex **666600**. A complement of this color would be **6, 56.966, 305.991**, and the grayscale version is **30, 0.005, 296.813**.

A 20% lighter version of the original color is **53, 42.162, 105.492**, and **13, 21.838, 119.435** is the 20% darker color. If you saturate the color by 10%, you get **33, 42.366, 105.668**, and if you desaturate by 10%, it is **33, 39.613, 105.999**.

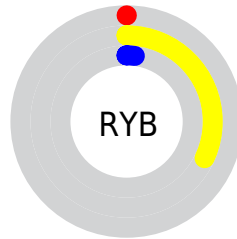
Distribution



Red (30%)

Green (32%)

Blue (0%)



Red (0%)

Yellow (32%)

Blue (2%)

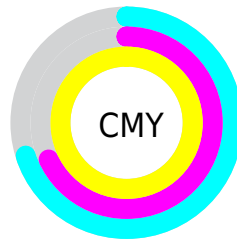


Cyan (5%)

Magenta (0%)

Yellow (100%)

Black (68%)



Cyan (70%)

Magenta (68%)


Yellow (100%)


Brightness & Saturation Gradients


These gradients show how the CIELCh color 33, 42.573, 105.620 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 33, 42.573, 105.620 by changing the saturation by 10% instead.


 33, 42.573,
105.620


 33, 42.573,
105.620

 100, 42.573,
105.620


 23, 42.573,
105.620

 53, 42.573,
105.620


 13, 42.573,
105.620


 63, 42.573,
105.620

 3, 42.573, 105.620

 73, 42.573,
105.620

 0, 42.573, 105.620

 83, 42.573,
105.620

 93, 42.573,
105.620

■ 33, 42.573,
105.620

■ 33, 42.573,
105.620

■ 33, 42.366,
105.668

■ 33, 39.613,
105.999

■ 33, 36.828,
106.329

■ 33, 33.308,
106.820

■ 33, 29.222,
107.438

■ 34, 24.747,
108.145

■ 34, 20.016,
108.910

■ 34, 15.121,
109.707

■ 34, 10.126,

110.518

■ 34, 5.075, 111.328

Harmonies

Complementary

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



33, 42.573, 105.620



6, 56.966, 305.991

Rectangle

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



33, 42.573, 105.620



33, 42.573, 155.620



33, 42.573, 285.620



33, 42.573, 335.620

Sweetspot

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



33, 42.366, 105.668



44, 18.954, 109.619



15, 40.856, 33.665



22, 12.761, 109.430



74, 0.009, 296.813



22, 0.004, 296.813

Same Dimension

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



33, 42.366, 105.668



43, 51.273, 105.770



30, 47.450, 127.692



16, 2.842, 111.431



42, 50.407, 105.762



88, 90.417, 105.963

Inverse Universe

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



6, 56.966, 305.991



10, 70.354, 306.566



10, 53.629, 313.651



15, 2.896, 292.877



9, 69.159, 306.574



29, 124.376, 306.398

Previews

White Background



This preview shows how the CIELCh color 33, 42.573, 105.620 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 33, 42.573, 105.620 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

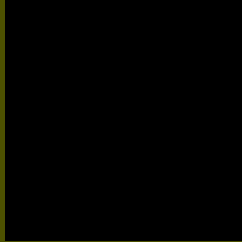
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 33, 42.573, 105.620

Background



This preview shows how black text looks on a background with the CIELCh color 33, 42.573, 105.620.

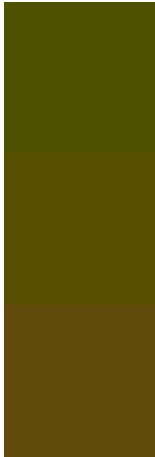


This preview shows how white text looks on a background with the CIELCh color 33, 42.573, 105.620.

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

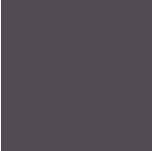
33, 42.220, 105.649

Protanopia

33, 41.439, 95.583

Deuteranopia

33, 37.402, 83.956



Tritanopia
33, 4.854, 329.035

Trichromacy



Original Color
33, 42.220, 105.649

Protanomaly
33, 41.520, 99.250

Deuteranomaly
33, 38.538, 93.161

Tritanomaly
33, 16.234, 102.164

Monochromacy



Original Color
33, 42.220, 105.649

Achromatopsia
30, 0.005, 296.813

Achromatomaly
31, 18.719, 109.706

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 33, 42.573, 105.620 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(77, 81, 0)` looks like.

```
.text, #text, p{  
    color:rgb(77, 81, 0)  
}
```

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(77, 81, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(77, 81, 0) }
```

Border

The CSS property to change the border of an element to CIELCh 33, 42.573, 105.620 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(77, 81, 0) }
```

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

```
.border{ border-color:rgb(77, 81, 0) }
```

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

Here you see how a box with a 4 pixel `rgb(77, 81, 0)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(77, 81, 0); -webkit-box-shadow:4px  
4px 4px 4px rgb(77, 81, 0); box-shadow:4px  
4px 4px 4px rgb(77, 81, 0) }
```

Background

The CSS property to change the background color of an element to CIELCh 33, 42.573, 105.620 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(77, 81, 0) }
```

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

```
.background{ background-color: rgb(77, 81,  
0) }
```

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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