

Converting Colors

CIELCh(33, 50.498, 1.073)

Have a look what the booklet for
CIELCh(33, 50.498, 1.073) contains.

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Color

CIELCh(33, 50.434, 1.230)

Conversions

Conversions Part 1

Format	Color
Hex	921E4E
RGB	146, 30, 78
RGB Percent	57%, 12%, 31%
CMY	0.4287, 0.8838, 0.6952
CMYK	0.00, 0.80, 0.47, 0.43
HSL	335°, 66%, 34%
HSV	335°, 80%, 57%
XYZ	13.6172, 7.5373, 7.8953
YIQ	70.1560, 53.7280, 39.5200

Conversions

Conversions Part 2

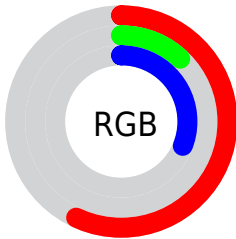
Format	Color
R_{YB}	146, 30, 78
Decimal	9576014
CIE Lab	33.00, 50.42, 1.08
CIE LCh	33, 50.434, 1.230
Yxy	7.5373, 0.4688, 0.2595
Android (android.graphics.Color)	4287766094 (0xFF921E4E)
YUV	70.1560, 3.8671, 66.5152
Hunter-Lab	27.4541, 40.4910, 2.1671

Details

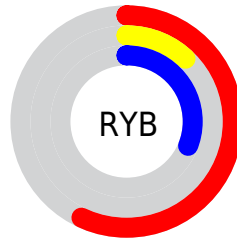
The CIELCh color **33, 50.434, 1.230** is a dark color, and the websafe version is hex **993366**. A complement of this color would be **54, 46.004, 158.507**, and the grayscale version is **30, 0.005, 296.813**.

A 20% lighter version of the original color is **53, 50.284, 1.176**, and **17, 39.541, 9.648** is the 20% darker color. If you saturate the color by 10%, you get **31, 53.476, 4.834**, and if you desaturate by 10%, it is **35, 46.063, 358.375**.

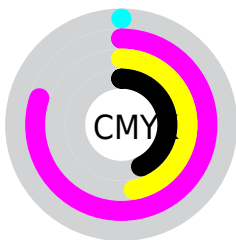
Distribution



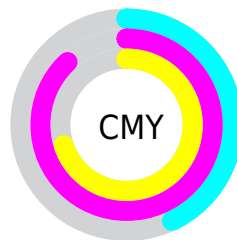
- Red (57%)
- Green (12%)
- Blue (31%)



- Red (57%)
- Yellow (12%)
- Blue (31%)



- Cyan (0%)
- Magenta (80%)
- Yellow (47%)
- Black (43%)




- Cyan (43%)
- Magenta (88%)
- Yellow (70%)
- Black (0%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 33, 50.434, 1.230 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, 50.434, 1.230 by changing the saturation by 10% instead.

 33, 50.434, 1.230  33, 50.434, 1.230

 100, 50.434, 1.230  23, 50.434, 1.230

 53, 50.434, 1.230  13, 50.434, 1.230


 63, 50.434, 1.230  3, 50.434, 1.230

 73, 50.434, 1.230  0, 50.434, 1.230

 83, 50.434, 1.230

 93, 50.434, 1.230

 33, 50.434, 1.230  33, 50.434, 1.230

 31, 53.476, 4.834  35, 46.063,
358.375

 30, 55.613, 9.058

30, 55.692, 9.200

38, 40.564,
356.101

41, 34.255,
354.259

45, 27.459,
352.735

48, 20.449,
351.444

52, 13.422,
350.324

56, 6.506, 349.320

61, 0.221, 170.068

65, 6.720, 167.770

Harmonies

Complementary

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



33, 50.434, 1.230



54, 46.004, 158.507

Rectangle

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



33, 50.434, 1.230



33, 50.434, 51.230



33, 50.434, 181.230



33, 50.434, 231.230

Sweetspot

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



33, 50.431, 1.231



64, 20.344, 350.847



28, 70.931, 314.817



32, 13.972, 351.210



88, 0.010, 296.813



40, 0.006, 296.813

Same Dimension

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



33, 50.431, 1.231



41, 66.627, 8.474



33, 54.300, 36.177



29, 3.850, 349.277



29, 53.442, 8.917



1, 3.322, 348.525

Inverse Universe

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



33, 50.431, 1.231



41, 66.627, 8.474



52, 28.427, 208.356



29, 3.850, 349.277



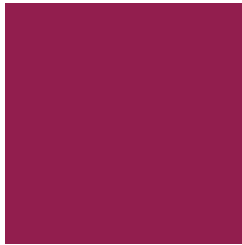
29, 53.442, 8.917



1, 3.322, 348.525

Previews

White Background



This preview shows how the CIELCh color 33, 50.434, 1.230 looks on a white background.

Color Contrast Check

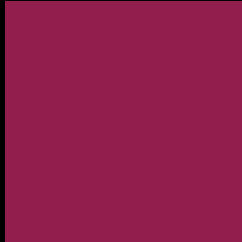
Large Text (above 18pt) WCAG AA ✓ Pass

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, 50.434, 1.230 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

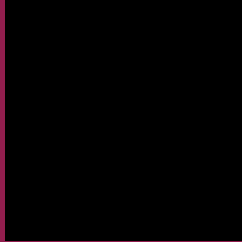
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 33, 50.434, 1.230

Background



This preview shows how black text looks on a background with the CIELCh color 33, 50.434, 1.230.



This preview shows how white text looks on a background with the CIELCh color 33, 50.434, 1.230.

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, 50.434, 1.230

Protanopia

34, 17.700, 284.840

Deuteranopia

33, 6.420, 43.031



Tritanopia
33, 49.928, 29.277

Trichromacy



Original Color
33, 50.434, 1.230

Protanomaly
31, 27.251, 327.901

Deuteranomaly
32, 24.391, 1.914

Tritanomaly
33, 48.893, 19.086

Monochromacy



Original Color
33, 50.434, 1.230

Achromatopsia
30, 0.005, 296.813

Achromatomaly
29, 21.979, 352.815

CSS Examples

Text

The CSS property to change the color of the text to CIElCh 33, 50.434, 1.230 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(146, 30, 78)` looks like.

```
.text, #text, p{  
    color:rgb(146, 30, 78)  
}
```

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(146, 30, 78) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(146, 30, 78) }
```

Border

The CSS property to change the border of an element to CIELCh 33, 50.434, 1.230 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(146, 30, 78) }
```

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

```
.border{ border-color:rgb(146, 30, 78) }
```

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

Here you see how a box with a 4 pixel rgb(146, 30, 78) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(146, 30, 78); -webkit-box-  
shadow:4px 4px 4px 4px rgb(146, 30, 78);  
box-shadow:4px 4px 4px 4px rgb(146, 30,  
78) }
```

Background

The CSS property to change the background color of an element to CIELCh 33, 50.434, 1.230 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(146, 30, 78) }
```

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

```
.background{ background-color: rgb(146, 30,  
78) }
```

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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