

Converting Colors

CIELCh(33, 12.949, 133.018)

Have a look what the booklet for
CIElCh(33, 12.949, 133.018)
contains.

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Color

CIELCh(33, 13.080, 132.584)

Conversions

Conversions Part 1

Format	Color
Hex	45513E
RGB	69, 81, 62
RGB Percent	27%, 32%, 24%
CMY	0.7286, 0.6816, 0.7561
CMYK	0.15, 0.00, 0.23, 0.68
HSL	98°, 13%, 28%
HSV	98°, 23%, 32%
XYZ	6.3005, 7.5373, 5.7080
YIQ	75.2460, -1.0530, -8.4530

Conversions

Conversions Part 2

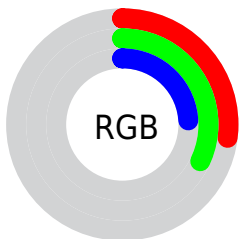
Format	Color
RYB	62, 81, 74
Decimal	4542782
CIELab	33.00, -8.85, 9.63
CIELCh	33, 13.080, 132.584
Yxy	7.5373, 0.3223, 0.3856
Android (android.graphics.Color)	4282732862 (0xFF45513E)
YUV	75.2460, -6.5303, -5.4777
Hunter-Lab	27.4541, -7.0801, 6.8909

Details

The CIELCh color **33, 13.080, 132.584** is a dark color, and the websafe version is hex **666666**. A complement of this color would be **28, 13.350, 314.434**, and the grayscale version is **32, 0.005, 296.813**.

A 20% lighter version of the original color is **53, 12.723, 133.497**, and **13, 12.451, 131.803** is the 20% darker color. If you saturate the color by 10%, you get **32, 18.649, 132.130**, and if you desaturate by 10%, it is **34, 7.481, 133.018**.

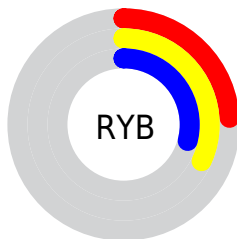
Distribution



Red (27%)

Green (32%)

Blue (24%)



Red (24%)

Yellow (32%)

Blue (29%)

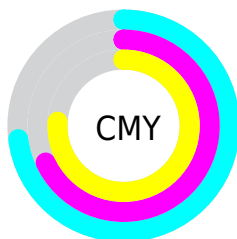


Cyan (15%)

Magenta (0%)

Yellow (23%)

Black (68%)



Cyan (73%)


Magenta (68%)


Yellow (76%)


Brightness & Saturation Gradients


These gradients show how the CIELCh color 33, 13.080, 132.584 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, 13.080, 132.584 by changing the saturation by 10% instead.


 33, 13.080,
132.584


 33, 13.080,
132.584

 100, 13.080,
132.584


 23, 13.080,
132.584

 53, 13.080,
132.584


 13, 13.080,
132.584


 63, 13.080,
132.584

 3, 13.080, 132.584

 73, 13.080,
132.584

 0, 13.080, 132.584

 83, 13.080,
132.584

 93, 13.080,
132.584

■ 33, 13.080,
132.584

■ 33, 13.080,
132.584

■ 32, 18.649,
132.130

■ 34, 7.481, 133.018

■ 32, 24.127,
131.664

■ 34, 1.893, 133.446

■ 31, 29.435,
131.212

■ 35, 3.653, 313.737

■ 31, 34.463,
130.818

■ 37, 14.533,
314.363

■ 31, 39.065,
130.544

■ 37, 19.839,
314.618

■ 30, 43.054,
130.478

■ 38, 25.044,
314.843

■ 30, 46.422,
130.579

■ 39, 30.146,
315.041

■ 30, 48.713,

■ 40, 35.141,

130.428

315.214

Harmonies

Complementary

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



33, 13.080, 132.584



28, 13.350, 314.434

Rectangle

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



33, 13.080, 132.584



33, 13.080, 182.584



33, 13.080, 312.584



33, 13.080, 2.584

Sweetspot

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



33, 13.081, 132.585



44, 4.800, 133.275



32, 8.155, 84.163



22, 3.145, 133.267



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, 13.081, 132.585



42, 19.275, 132.335



33, 13.528, 146.348



16, 3.125, 133.213



39, 58.385, 130.945



82, 105.900, 131.944

Inverse Universe

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



28, 13.350, 314.434



35, 19.768, 314.662



29, 13.554, 329.026



15, 3.153, 313.839



16, 62.772, 315.848



41, 113.123, 315.142

Previews

White Background



This preview shows how the CIE LCh color 33, 13.080, 132.584 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, 13.080, 132.584 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, 13.080, 132.584

Background



This preview shows how black text looks on a background with the CIELCh color 33, 13.080, 132.584.



This preview shows how white text looks on a background with the CIELCh color 33, 13.080, 132.584.

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, 13.080, 132.584

Protanopia

33, 11.024, 93.408

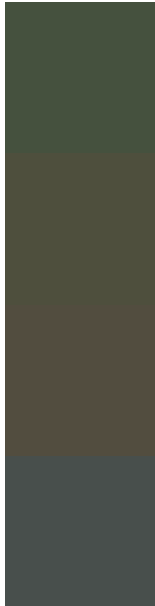
Deuteranopia

33, 9.865, 59.466



Tritanopia
33, 4.272, 261.843

Trichromacy



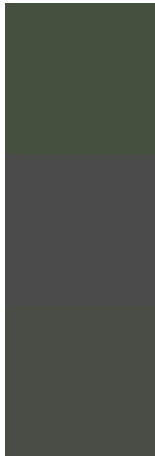
Original Color
33, 13.080, 132.584

Protanomaly
33, 11.244, 110.549

Deuteranomaly
33, 9.083, 93.771

Tritanomaly
33, 3.577, 167.050

Monochromacy



Original Color
33, 13.080, 132.584

Achromatopsia
32, 0.005, 296.813

Achromatomaly
32, 4.770, 131.193

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 33, 13.080, 132.584 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, 81, 62)` looks like.

```
.text, #text, p{  
    color:rgb(69, 81, 62)  
}
```

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, 81, 62) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(69, 81, 62) }
```

Border

The CSS property to change the border of an element to CIELCh 33, 13.080, 132.584 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, 81, 62) }
```

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

```
.border{ border-color:rgb(69, 81, 62) }
```

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

Here you see how a box with a 4 pixel `rgb(69, 81, 62)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(69, 81, 62); -webkit-box-  
shadow:4px 4px 4px 4px rgb(69, 81, 62);  
box-shadow:4px 4px 4px 4px rgb(69, 81, 62)  
}
```

Background

The CSS property to change the background color of an element to CIELCh 33, 13.080, 132.584 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(69, 81, 62) }
```

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

```
.background{ background-color: rgb(69, 81,  
62) }
```

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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