

Converting Colors

CIELCh(33, 12.521, 301.252)

Have a look what the booklet for
CIELCh(33, 12.521, 301.252)
contains.

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Color

CIELCh(33, 12.205, 301.678)

Conversions

Conversions Part 1

Format	Color
Hex	504B5E
RGB	80, 75, 94
RGB Percent	31%, 29%, 37%
CMY	0.6864, 0.7060, 0.6315
CMYK	0.15, 0.20, 0.00, 0.63
HSL	256°, 11%, 33%
HSV	256°, 20%, 37%
XYZ	7.8361, 7.5373, 11.6211
YIQ	78.6610, -3.1190, 6.9690

Conversions

Conversions Part 2

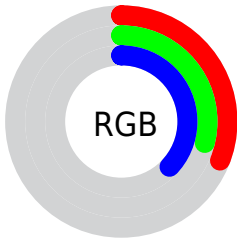
Format	Color
R_{YB}	80, 75, 94
Decimal	5262174
CIE Lab	33.00, 6.41, -10.39
CIE LCh	33, 12.205, 301.678
Yxy	7.5373, 0.2903, 0.2792
Android (android.graphics.Color)	4283452254 (0xFF504B5E)
YUV	78.6610, 7.5621, 1.1743
Hunter-Lab	27.4541, 2.9041, -5.8792

Details

The CIELCh color **33, 12.205, 301.678** is a dark color, and the websafe version is hex **666666**. A complement of this color would be **39, 11.752, 119.261**, and the grayscale version is **33, 0.005, 296.813**.

A 20% lighter version of the original color is **53, 11.776, 300.810**, and **13, 12.406, 301.596** is the 20% darker color. If you saturate the color by 10%, you get **30, 18.549, 302.431**, and if you desaturate by 10%, it is **36, 6.066, 301.006**.

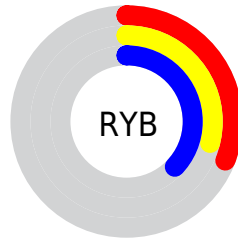
Distribution



Red (31%)

Green (29%)

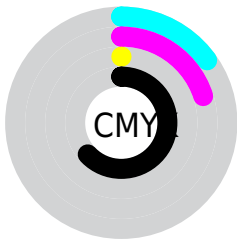
Blue (37%)



Red (31%)

Yellow (29%)

Blue (37%)

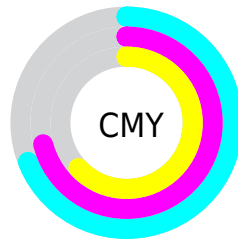


Cyan (15%)

Magenta (20%)

Yellow (0%)

Black (63%)



Cyan (69%)


Magenta (71%)


Yellow (63%)


Brightness & Saturation Gradients


These gradients show how the CIELCh color 33, 12.205, 301.678 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, 12.205, 301.678 by changing the saturation by 10% instead.


 33, 12.205,
301.678


 33, 12.205,
301.678

 100, 12.205,
301.678


 23, 12.205,
301.678

 53, 12.205,
301.678


 13, 12.205,
301.678


 63, 12.205,
301.678

 3, 12.205, 301.678

 73, 12.205,
301.678

 0, 12.205, 301.678

 83, 12.205,
301.678

 93, 12.205,
301.678

■ 33, 12.205,
301.678

■ 33, 12.205,
301.678

■ 30, 18.549,
302.431

■ 36, 6.066, 301.006

■ 26, 25.089,
303.270

■ 40, 0.133, 300.268

■ 43, 5.601, 119.907

■ 23, 31.790,
304.183

■ 47, 11.146,
119.455

■ 20, 38.570,
305.144

■ 50, 16.513,
119.062

■ 17, 45.262,
306.102

■ 53, 21.712,
118.721

■ 14, 51.564,
306.965

■ 56, 26.752,
118.425

■ 11, 57.007,
307.601

■ 60, 31.644,
118.168

■ 9, 62.453, 308.460

■ 63, 36.396,
117.947

Harmonies

Complementary

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



33, 12.205, 301.678



39, 11.752, 119.261

Rectangle

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



33, 12.205, 301.678



33, 12.205, 351.678



33, 12.205, 121.678



33, 12.205, 171.678

Sweetspot

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



33, 12.204, 301.677



49, 4.400, 300.756



37, 6.315, 226.604



24, 2.893, 300.778



77, 0.009, 296.813



26, 0.004, 296.813

Same Dimension

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



33, 12.204, 301.677



41, 18.147, 302.008



34, 13.346, 318.095



17, 3.255, 300.917



12, 69.771, 308.288



32, 123.880, 307.751

Inverse Universe

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



34, 11.916, 334.083



43, 17.606, 334.386



38, 13.193, 136.422



17, 3.218, 333.335



23, 51.225, 341.424



53, 89.281, 342.539

Previews

White Background



This preview shows how the CIELCh color 33, 12.205, 301.678 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 CIE LCh color 33, 12.205, 301.678 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

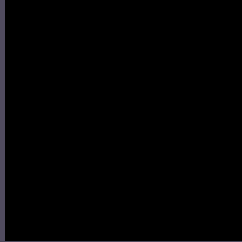
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 33, 12.205, 301.678

Background



This preview shows how black text looks on a background with the CIELCh color 33, 12.205, 301.678.

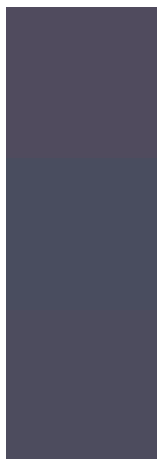


This preview shows how white text looks on a background with the CIELCh color 33, 12.205, 301.678.

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, 12.205, 301.678

Protanopia

33, 11.417, 284.274

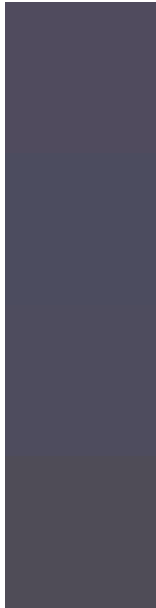
Deuteranopia

33, 11.378, 294.140



Tritanopia
33, 3.816, 297.195

Trichromacy



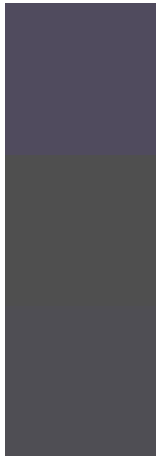
Original Color
33, 12.205, 301.678

Protanomaly
33, 11.995, 292.249

Deuteranomaly
33, 11.404, 296.141

Tritanomaly
33, 7.077, 301.504

Monochromacy



Original Color
33, 12.205, 301.678

Achromatopsia
34, 0.005, 296.813

Achromatomaly
33, 3.808, 297.189

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 33, 12.205, 301.678 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(80, 75, 94)` looks like.

```
.text, #text, p{  
    color:rgb(80, 75, 94)  
}
```

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(80, 75, 94) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(80, 75, 94) }
```

Border

The CSS property to change the border of an element to CIELCh 33, 12.205, 301.678 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(80, 75, 94) }
```

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

```
.border{ border-color:rgb(80, 75, 94) }
```

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

Here you see how a box with a 4 pixel `rgb(80, 75, 94)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(80, 75, 94); -webkit-box-  
shadow:4px 4px 4px 4px rgb(80, 75, 94);  
box-shadow:4px 4px 4px 4px rgb(80, 75, 94)  
}
```

Background

The CSS property to change the background color of an element to CIELCh 33, 12.205, 301.678 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(80, 75, 94) }
```

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

```
.background{ background-color: rgb(80, 75,  
94) }
```

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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