

Converting Colors

CIELCh(33, 12.737, 20.414)

Have a look what the booklet for
CIELCh(33, 12.737, 20.414) contains.

CIELCh(33, 12.415, 21.412)	3
<i>Conversions</i>	4
<i>Details</i>	6
<i>Harmonies</i>	11
<i>Previews</i>	20
<i>Color Blindness Simulation</i>	23
<i>CSS Examples</i>	26

Color

CIELCh(33, 12.415, 21.412)

Conversions

Conversions Part 1

Format	Color
Hex	624747
RGB	98, 71, 71
RGB Percent	38%, 28%, 28%
CMY	0.6161, 0.7220, 0.7220
CMYK	0.00, 0.28, 0.28, 0.62
HSL	0°, 16%, 33%
HSV	0°, 28%, 38%
XYZ	8.4056, 7.5373, 6.9556
YIQ	79.0730, 16.0920, 5.7240

Conversions

Conversions Part 2

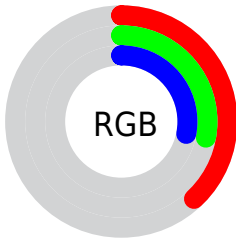
Format	Color
RYB	98, 71, 71
Decimal	6440775
CIELab	33.00, 11.56, 4.53
CIElCh	33, 12.415, 21.412
Yxy	7.5373, 0.3671, 0.3292
Android (android.graphics.Color)	4284630855 (0xFF624747)
YUV	79.0730, -3.9800, 16.5990
Hunter-Lab	27.4541, 6.6066, 4.1966

Details

The CIELCh color **33, 12.415, 21.412** is a dark color, and the websafe version is hex **663333**. A complement of this color would be **39, 10.443, 198.125**, and the grayscale version is **34, 0.005, 296.813**.

A 20% lighter version of the original color is **53, 12.107, 23.431**, and **13, 12.272, 19.802** is the 20% darker color. If you saturate the color by 10%, you get **30, 17.508, 22.572**, and if you desaturate by 10%, it is **36, 7.631, 20.507**.

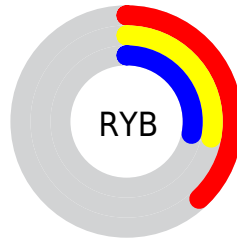
Distribution



Red (38%)

Green (28%)

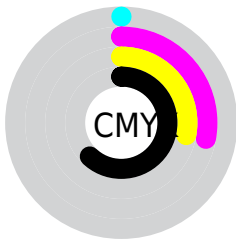
Blue (28%)



Red (38%)

Yellow (28%)

Blue (28%)

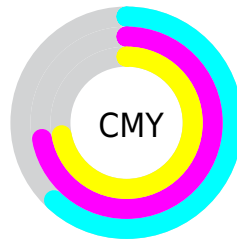


Cyan (0%)

Magenta (28%)

Yellow (28%)

Black (62%)



Cyan (62%)

Magenta (72%)

Yellow (72%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 33, 12.415, 21.412 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, 12.415, 21.412 by changing the saturation by 10% instead.

■ 33, 12.415, 21.412

■ 33, 12.415, 21.412

■ 100, 12.415,
21.412

■ 23, 12.415, 21.412

■ 53, 12.415, 21.412

■ 13, 12.415, 21.412

■ 63, 12.415, 21.412

■ 3, 12.415, 21.412

■ 73, 12.415, 21.412

■ 0, 12.415, 21.412

■ 83, 12.415, 21.412

■ 93, 12.415, 21.412

■ 33, 12.415, 21.412

■ 33, 12.415, 21.412

■ 30, 17.508, 22.572

■ 36, 7.631, 20.507

27, 22.872, 24.052

39, 3.170, 19.745

25, 28.423, 25.947

42, 0.977, 199.629

23, 34.035, 28.341

45, 4.833, 198.917

21, 39.536, 31.263

49, 8.421, 198.530

20, 44.296, 33.854

52, 11.772,
198.227

19, 47.853, 35.158

55, 14.910,
197.982

18, 48.724, 35.405

58, 17.861,
197.780

62, 20.648,
197.612

Harmonies

Complementary

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



33, 12.415, 21.412



39, 10.443, 198.125

Rectangle

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



33, 12.415, 21.412



33, 12.415, 71.412



33, 12.415, 201.412



33, 12.415, 251.412

Sweetspot

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



33, 12.414, 21.418



50, 4.171, 19.795



34, 20.170, 325.836



25, 2.951, 19.879



77, 0.009, 296.813



27, 0.004, 296.813

Same Dimension

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



33, 12.414, 21.418



41, 18.880, 22.125



37, 10.431, 72.227



18, 2.339, 19.842



22, 54.831, 37.110



50, 99.789, 40.001

Inverse Universe

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



39, 10.443, 198.125



50, 15.181, 197.858



35, 9.728, 259.306



20, 2.220, 199.051



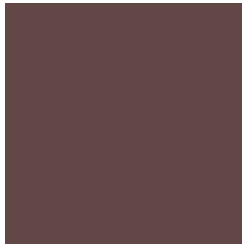
42, 27.354, 196.394



86, 47.818, 196.395

Previews

White Background



This preview shows how the CIELCh color 33, 12.415, 21.412 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, 12.415, 21.412 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

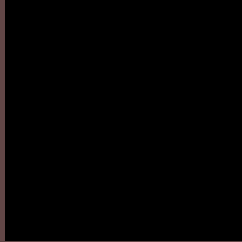
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 33, 12.415, 21.412

Background



This preview shows how black text looks on a background with the CIELCh color 33, 12.415, 21.412.

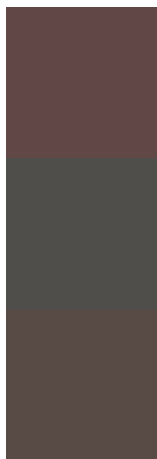


This preview shows how white text looks on a background with the CIELCh color 33, 12.415, 21.412.

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, 12.415, 21.412

Protanopia

33, 2.652, 90.240

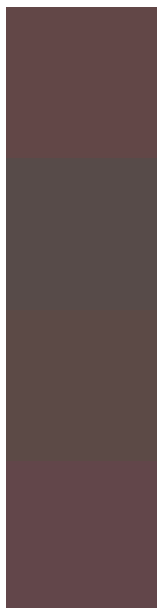
Deuteranopia

33, 6.736, 47.788



Tritanopia
33, 13.077, 5.049

Trichromacy



Original Color
33, 12.415, 21.412

Protanomaly
33, 5.549, 33.179

Deuteranomaly
33, 8.669, 37.278

Tritanomaly
33, 12.898, 10.472

Monochromacy



Original Color
33, 12.415, 21.412

Achromatopsia
34, 0.005, 296.813

Achromatomaly
33, 4.435, 20.027

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 33, 12.415, 21.412 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(98, 71, 71)` looks like.

```
.text, #text, p{  
    color:rgb(98, 71, 71)  
}
```

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(98, 71, 71) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(98, 71, 71) }
```

Border

The CSS property to change the border of an element to CIELCh 33, 12.415, 21.412 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(98, 71, 71) }
```

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

```
.border{ border-color:rgb(98, 71, 71) }
```

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

Here you see how a box with a 4 pixel rgb(98, 71, 71) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(98, 71, 71); -webkit-box-  
shadow:4px 4px 4px 4px rgb(98, 71, 71);  
box-shadow:4px 4px 4px 4px rgb(98, 71, 71)  
}
```

Background

The CSS property to change the background color of an element to CIELCh 33, 12.415, 21.412 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(98, 71, 71) }
```

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

```
.background{ background-color: rgb(98, 71,  
71) }
```

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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

[Learn more, Memberships starting at \\$2.50/m!](#)

**Follow me
on Twitter!**

@ConvertingColor