

Converting Colors

CIELCh(33, 13.750, 19.412)

Have a look what the booklet for
CIELCh(33, 13.750, 19.412) contains.

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Color

CIELCh(33, 13.808, 19.121)

Conversions

Conversions Part 1

Format	Color
Hex	644647
RGB	100, 70, 71
RGB Percent	39%, 27%, 28%
CMY	0.6080, 0.7256, 0.7217
CMYK	0.00, 0.30, 0.29, 0.61
HSL	358°, 18%, 33%
HSV	358°, 30%, 39%
XYZ	8.5752, 7.5373, 6.9580
YIQ	79.0840, 17.5590, 6.6710

Conversions

Conversions Part 2

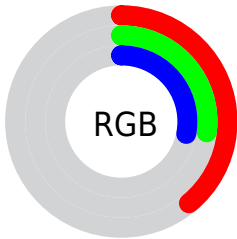
Format	Color
R_{YB}	100, 70, 71
Decimal	6571591
CIE Lab	33.00, 13.05, 4.52
CIE LCh	33, 13.808, 19.121
Yxy	7.5373, 0.3717, 0.3267
Android (android.graphics.Color)	4284761671 (0xFF644647)
YUV	79.0840, -3.9854, 18.3433
Hunter-Lab	27.4541, 7.7092, 4.1913




Details

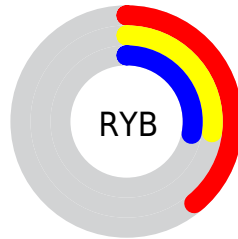
The CIELCh color **33, 13.808, 19.121** is a dark color, and the websafe version is hex **663333**. A complement of this color would be **40, 11.551, 194.953**, and the grayscale version is **34, 0.005, 296.813**.




A 20% lighter version of the original color is **53, 13.784, 20.946**, and **13, 13.862, 17.916** is the 20% darker color. If you saturate the color by 10%, you get **30, 18.994, 20.427**, and if you desaturate by 10%, it is **36, 8.901, 18.088**.

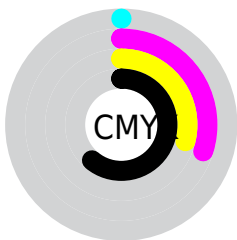
Distribution







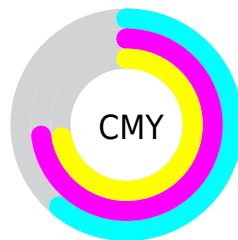
-  Red (39%)
-  Green (27%)
-  Blue (28%)






-  Red (39%)
-  Yellow (27%)
-  Blue (28%)



-  Cyan (0%)
-  Magenta (30%)
-  Yellow (29%)
-  Black (61%)



-  Cyan (61%)
-  Magenta (73%)
-  Yellow (72%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 33, 13.808, 19.121 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, 13.808, 19.121 by changing the saturation by 10% instead.

■ 33, 13.808, 19.121

■ 33, 13.808, 19.121

■ 100, 13.808,
19.121

■ 23, 13.808, 19.121

■ 53, 13.808, 19.121

■ 13, 13.808, 19.121

■ 63, 13.808, 19.121

■ 3, 13.808, 19.121

■ 73, 13.808, 19.121

■ 0, 13.808, 19.121

■ 83, 13.808, 19.121

■ 93, 13.808, 19.121

■ 33, 13.808, 19.121

■ 33, 13.808, 19.121

■ 30, 18.994, 20.427

■ 36, 8.901, 18.088

27, 24.403, 22.075

39, 4.300, 17.229

25, 29.936, 24.168

42, 0.007, 319.069

23, 35.451, 26.794

46, 4.002, 196.183

21, 40.774, 29.986

49, 7.741, 195.693

20, 45.384, 33.027

52, 11.237,
195.302

19, 48.936, 34.379

55, 14.517,
194.975

59, 17.604,
194.697

62, 20.521,
194.457

Harmonies

Complementary

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



33, 13.808, 19.121



40, 11.551, 194.953

Rectangle

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



33, 13.808, 19.121



33, 13.808, 69.121



33, 13.808, 199.121



33, 13.808, 249.121

Sweetspot

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



33, 13.807, 19.126



51, 4.789, 17.168



34, 22.118, 325.009



26, 3.367, 17.257



78, 0.009, 296.813



28, 0.004, 296.813

Same Dimension

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



33, 13.807, 19.126



41, 21.030, 20.011



37, 11.444, 68.398



19, 2.444, 17.142



22, 55.050, 36.038



51, 99.278, 39.036

Inverse Universe

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



33, 13.807, 19.126



41, 21.030, 20.011



36, 10.425, 255.940



19, 2.444, 17.142



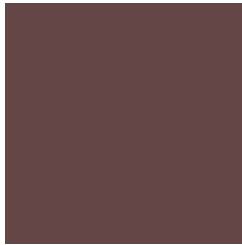
22, 55.050, 36.038



51, 99.278, 39.036

Previews

White Background



This preview shows how the CIE LCh color 33, 13.808, 19.121 looks on a white background.

Color Contrast Check

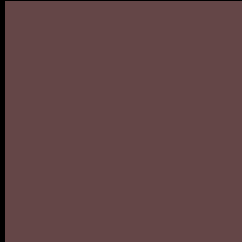
Large Text (above 18pt) WCAG AA ✓ Pass

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, 13.808, 19.121 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

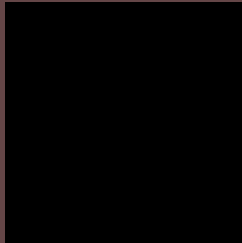
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 33, 13.808, 19.121

Background



This preview shows how black text looks on a background with the CIELCh color 33, 13.808, 19.121.

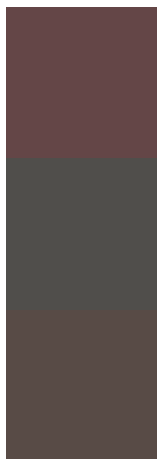


This preview shows how white text looks on a background with the CIELCh color 33, 13.808, 19.121.

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, 13.808, 19.121

Protanopia

33, 2.069, 84.636

Deuteranopia

33, 6.736, 47.788



Tritanopia
33, 14.430, 6.933

Trichromacy



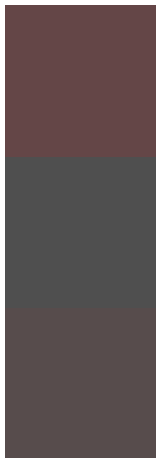
Original Color
33, 13.808, 19.121

Protanomaly
33, 5.415, 26.803

Deuteranomaly
33, 8.949, 32.755

Tritanomaly
33, 14.350, 9.383

Monochromacy



Original Color
33, 13.808, 19.121

Achromatopsia
34, 0.005, 296.813

Achromatomaly
33, 4.887, 20.103

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 33, 13.808, 19.121 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(100, 70, 71)` looks like.

```
.text, #text, p{  
    color:rgb(100, 70, 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(100, 70, 71) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(100, 70, 71) }
```

Border

The CSS property to change the border of an element to CIELCh 33, 13.808, 19.121 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(100, 70, 71) }
```

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

```
.border{ border-color:rgb(100, 70, 71) }
```

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

Here you see how a box with a 4 pixel `rgb(100, 70, 71)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(100, 70, 71); -webkit-box-  
shadow:4px 4px 4px 4px rgb(100, 70, 71);  
box-shadow:4px 4px 4px 4px rgb(100, 70,  
71) }
```

Background

The CSS property to change the background color of an element to CIELCh 33, 13.808, 19.121 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(100, 70, 71) }
```

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

```
.background{ background-color: rgb(100, 70,  
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](#).

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