

Converting Colors

CIELCh(19, 20.408, 338.039)

Have a look what the booklet for
CIELCh(19, 20.408, 338.039)
contains.

CIELCh(19, 20.370, 337.993)	3
<i>Conversions</i>	4
<i>Details</i>	6
<i>Harmonies</i>	12
<i>Previews</i>	21
<i>Color Blindness Simulation</i>	24
<i>CSS Examples</i>	27

Color

CIELCh(19, 20.370, 337.993)

Conversions

Conversions Part 1

Format	Color
Hex	44243A
RGB	68, 36, 58
RGB Percent	27%, 14%, 23%
CMY	0.7353, 0.8606, 0.7744
CMYK	0.00, 0.47, 0.15, 0.74
HSL	319°, 31%, 20%
HSV	319°, 47%, 26%
XYZ	3.7191, 2.7468, 4.2754
YIQ	48.0760, 12.0100, 13.6260

Conversions

Conversions Part 2

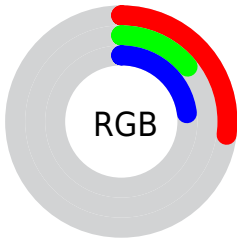
Format	Color
R _Y B	68, 36, 58
Decimal	4465722
CIE Lab	19.00, 18.89, -7.63
CIE LCh	19, 20.370, 337.993
Yxy	2.7468, 0.3462, 0.2557
Android (android.graphics.Color)	4282655802 (0xFF44243A)
YUV	48.0760, 4.8925, 17.4733
Hunter-Lab	16.5735, 11.0520, -3.6932




Details

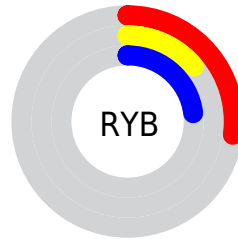
The CIELCh color **19, 20.370, 337.993** is a dark color, and the websafe version is hex **663333**. A complement of this color would be **26, 20.119, 151.046**, and the grayscale version is **20, 0.004, 296.813**.




A 20% lighter version of the original color is **39, 20.025, 338.232**, and **2, 11.443, 345.721** is the 20% darker color. If you saturate the color by 10%, you get **17, 24.313, 338.822**, and if you desaturate by 10%, it is **21, 16.176, 337.228**.

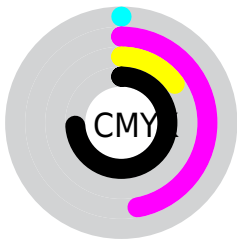
Distribution







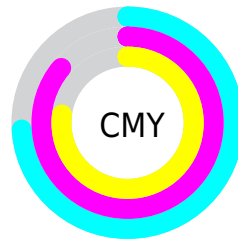
-  Red (27%)
-  Green (14%)
-  Blue (23%)






-  Red (27%)
-  Yellow (14%)
-  Blue (23%)



-  Cyan (0%)
-  Magenta (47%)
-  Yellow (15%)
-  Black (74%)





-  Cyan (74%)
-  Magenta (86%)
-  Yellow (77%)


Brightness & Saturation Gradients

These gradients show how the CIELCh color 19, 20.370, 337.993 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 19, 20.370, 337.993 by changing the saturation by 10% instead.

 19, 20.370,
337.993


 19, 20.370,
337.993


 100, 20.370,
337.993


 9, 20.370, 337.993


 39, 20.370,
337.993

 0, 20.370, 337.993

 49, 20.370,
337.993


 59, 20.370,
337.993


 69, 20.370,
337.993


 79, 20.370,
337.993

 89, 20.370,


337.993


 99, 20.370,
337.993


 19, 20.370,
337.993


 19, 20.370,
337.993

 17, 24.313,
338.822


 21, 16.176,
337.228

 16, 27.860,
339.733


 23, 11.853,
336.512

 14, 30.845,
340.754

 25, 7.490, 335.835

 13, 33.134,
341.918

 27, 3.150, 335.174

 12, 35.382,
343.028

 29, 1.126, 154.768

 31, 5.312, 154.091

■ 12, 36.033,
343.298

■ 34, 9.393, 153.542

■ 36, 13.363,
153.030

■ 38, 17.221,
152.547

Harmonies

Complementary

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



19, 20.370, 337.993



26, 20.119, 151.046

Rectangle

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



19, 20.370, 337.993



19, 20.370, 27.993



19, 20.370, 157.993



19, 20.370, 207.993

Sweetspot

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



19, 20.369, 337.994



33, 7.433, 335.651



17, 22.660, 304.849



15, 5.054, 335.714



70, 0.009, 296.813



18, 0.003, 296.813

Same Dimension

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



19, 20.369, 337.994



23, 29.639, 338.989



18, 16.301, 8.534



12, 2.353, 335.252



20, 45.633, 344.398



50, 82.973, 346.087

Inverse Universe

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



19, 20.369, 337.994



23, 29.639, 338.989



26, 13.627, 179.211



12, 2.353, 335.252



20, 45.633, 344.398



50, 82.973, 346.087

Previews

White Background



This preview shows how the CIE LCh color 19, 20.370, 337.993 looks on a white background.

Color Contrast Check

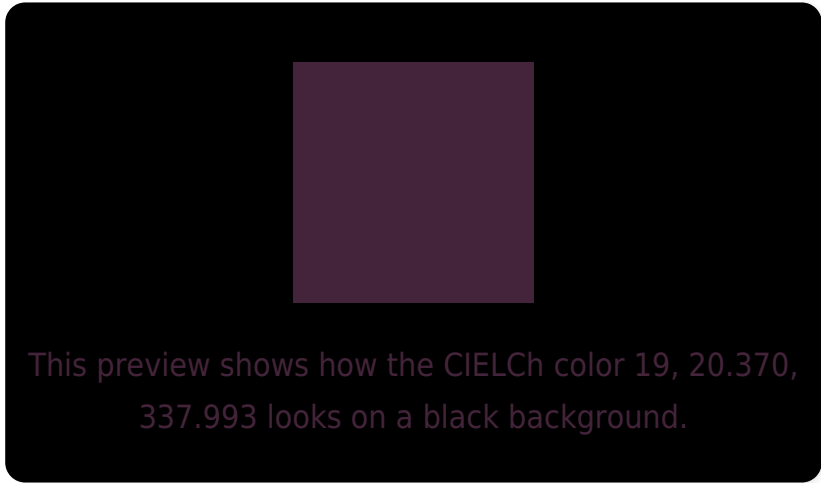
Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

Black Background



Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

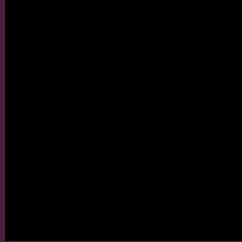
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 19, 20.370, 337.993

Background



This preview shows how black text looks on a background with the CIELCh color 19, 20.370, 337.993.



This preview shows how white text looks on a background with the CIELCh color 19, 20.370, 337.993.

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

19, 20.370, 337.993

Protanopia

19, 13.088, 284.598

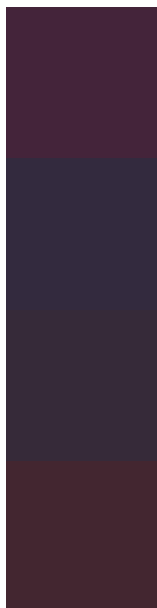
Deuteranopia

19, 6.871, 295.479



Tritanopia
19, 13.606, 14.284

Trichromacy



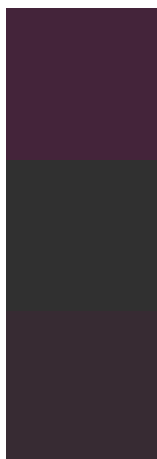
Original Color
19, 20.370, 337.993

Protanomaly
19, 14.328, 308.754

Deuteranomaly
19, 11.632, 319.806

Tritanomaly
19, 15.314, 357.349

Monochromacy



Original Color
19, 20.370, 337.993

Achromatopsia
20, 0.004, 296.813

Achromatomaly
19, 7.835, 336.995

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 19, 20.370, 337.993 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(68, 36, 58)` looks like.

```
.text, #text, p{  
    color:rgb(68, 36, 58)  
}
```

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(68, 36, 58) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(68, 36, 58) }
```

Border

The CSS property to change the border of an element to CIELCh 19, 20.370, 337.993 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(68, 36, 58) }
```

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

```
.border{ border-color:rgb(68, 36, 58) }
```

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

Here you see how a box with a 4 pixel rgb(68, 36, 58) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(68, 36, 58); -webkit-box-  
shadow:4px 4px 4px 4px rgb(68, 36, 58);  
box-shadow:4px 4px 4px 4px rgb(68, 36, 58)  
}
```

Background

The CSS property to change the background color of an element to CIELCh 19, 20.370, 337.993 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(68, 36, 58) }
```

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

```
.background{ background-color: rgb(68, 36,  
58) }
```

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